

REPORT
OF THE
Minister of Lands and Forests
OF THE
PROVINCE OF ONTARIO

For the Fiscal Year ending
March 31, 1947

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



TORONTO

Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty
1948

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SESSIONAL PAPER No. 3, 1948



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TO HIS HONOUR,

The Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned begs respectfully to present to your Honour, the Annual Report of the Department of Lands and Forests for the fiscal year April 1, 1946, to March 31, 1947.

H. R. SCOTT,

Minister.

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GENERAL INTRODUCTION

This report, which covers the year ending 31st March, 1947, shows the Department expenditure at a comparatively high level. Expenditure is more than double that of the fiscal year ending in 1939.

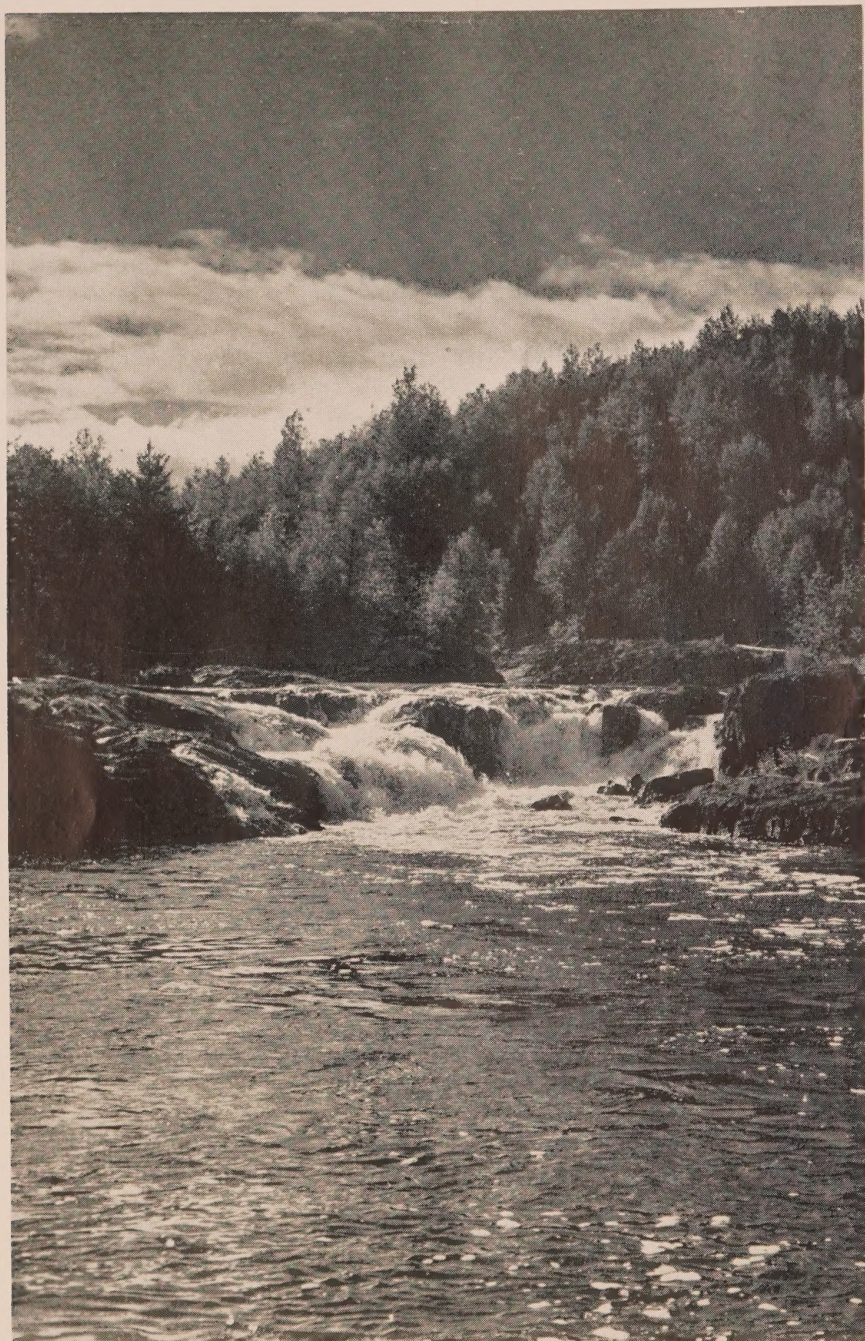
Following the outbreak of war the Department made every effort to improve the quality of service rendered. Progress in this connection was, of course, dependent upon available man power, equipment and supplies. Due to sharply rising costs absorbing an increasing proportion of our financial resources, progress was equally dependent upon available funds.

In the pre-war period the cost of maintaining a seasonal fire ranger was four hundred dollars. The present cost is seven hundred dollars for ranger labour of similar quality. Ranger labour of a quality satisfactory for Forest Ranger School training requires double the funds expended on ranger labour in the pre-war period. With equipment and operating supplies, together with wages of other personnel requiring sharply increased expenditure, a substantial drain is placed upon funds provided in the post-war period for expansion of our services.

Greater emphasis placed on careful management of resources has offset in no small degree, shrinkage in the purchasing value of the dollar. Additional funds placed at our disposal have made up the remaining shrinkage in value, permitted betterment in quality of service rendered and some expansion in service. Further expansion in the management of the natural resources of the Province entrusted to this Department, is in no small part dependent upon increased funds available for this purpose.

The report on the work of the Department is listed under the following headings:

Accounts	Operation and Personnel
Air Service	Reforestation
Fish and Wildlife	Research
Forest Protection	Surveys and Engineering
Land and Recreational Areas	Timber Management
Law	



GOD'S COUNTRY

DIVISION OF ACCOUNTS

GENERAL

As of 15th April, 1946, the Minister of Lands and Forests was charged with the administration of the former Department of Game and Fisheries, which became the Fish and Wildlife Division of the Department of Lands and Forests. For accounting purposes all receipts and expenditures of the former Department of Game and Fisheries are included under the Fish and Wildlife Division from 1st April, 1946, and a separate accounting made for this new Division.

A. DEPARTMENT OF LANDS AND FORESTS (OTHER THAN FISH AND WILDLIFE DIVISION)

The financial report sets out a substantial increase—\$1,862,412.—in expenditures appropriation of the Department as compared with the previous year. This increased appropriation was required for—

- (1) Air Service Equipment.
- (2) Construction of Ranger School at Dorset.
- (3) Expansion in field work of the Reforestation, Forest Research and Timber Management Divisions.

This increased expenditure was partly offset by an increase in cash receipts—\$1,551,500.—as compared with the previous year. Revenue for the year was the highest in the history of the Department with most sources of revenue showing improvement, particularly receipts from sale of Crown timber. This result was due to an increase in available woods labour following the close of hostilities, and a sharp upswing in tourist trade throughout the Province.

Following the policy of obtaining the closest possible co-operation between Field and Main Offices, officers of this Division made the following field inspections, for purposes of instruction of Field Officers and inspection of work programs—and Provincial Land Tax Courts of Revision:

- (a) *Reforestation Field Offices:* Angus, Midhurst, St. Williams.
- (b) *District Offices:* Algonquin Park, Chapleau, Cochrane, Galt, Fort Frances, Geraldton, Gogama, Kapuskasing, Kemptville, Kenora, Lindsay, North Bay, PARRY Sound, Port Arthur, Sault Ste. Marie, Sioux Lookout, Sudbury, Tweed.
- (c) *Other Field Offices:* Ottawa, Pembroke, Ranger School (Dorset).
- (d) *Sundry:* Bracebridge, Little Current, Haileybury.

B. FISH AND WILDLIFE DIVISION—FORMERLY THE DEPARTMENT OF GAME AND FISHERIES

Receipts and Disbursements for the year are shown separately in Schedule G, Page 24.

A substantial increase—\$449,313.09—in the expenditure appropriation for the year, as compared with the previous year, was required. This increased appropriation was required for

- (1) Enforcement of the Game and Fisheries Act.
- (2) Hatcheries—Operation and maintenance.
- (3) Erecting buildings; Purchase of Land, Buildings and Equipment.

The increase in expenditure was more than offset by an increase in cash receipts—\$597,034.99—as compared with the previous year. Revenue for the year was the highest in history, with most sources of revenue showing improvement, particularly receipts from the sale of Hunting and Angling Licences. This was due to a sharp upswing in tourist trade throughout the Province.

FINANCIAL REPORT

1. *Cash Receipts and Disbursements:*

Statement for the year ending March 31, 1947 is set out on Schedule A, page 10. The following summarizes the result of operations for the year.

Total—Cash Receipts.....	\$8,414 947.24
Total—Cash Disbursements.....	5,961,805.96
Excess of Receipts over Disbursements.....	\$2,453,141.28

2. *Comparison of Results with those of Prior Years:*

(a) *Receipts*

In Schedule B, page 16, cash receipts for the year under review have been compared with those of the previous four years. This data may be summarized as follows:

DIVISION	Years ending March 31st				
	1943	1944	1945	1946	1947
	\$	\$	\$	\$	\$
Accounts—					
Water Power Rentals.....	648,485	618,901	609,425	654,979	680,568
Provincial Land Tax.....	146,014	158,745	175,342	209,459	204,475
Long Lac Diversion.....	44,850	21,750	21,300	20,850	20,400
Miscellaneous.....	4,267	5,939	20,388	9,048	46,071
Land and Recreational Areas.....	173,779	273,754	294,308	338,258	430,644
Forest Protection.....	51,825	22,917	26,850	30,943	46,402
Timber Management.....	4,982,281	4,561,734	4,241,581	5,554,781	6,944,104
Surveys.....	3,438	13,293	1,275	459	1,652
Air Service.....	6,946	19,448	12,417	25,284	15,258
Reforestation.....	8,453	26,138	10,559	19,386	25,373
Lignite Development.....	924	16	.....	.....	.....
	6,071,262	5,722,635	5,413,445	6,863,447	8,414,947

(b) The following is a comparison of total disbursements for the five years ending March 31, 1947:

	1943	Years ending March 31st			
	\$	1944	1945	1946	1947
		\$	\$	\$	\$
Total Disbursements—					
Chargeable to appropriation as voted.....	2,799,689	3,040,901	3,572,225	3,988,394	5,961,806
Additional Disbursements—					
Uncontrollable items, chargeable to Special Warrants.....	701,296	.....	.....	111,000	.....
Total Disbursements.....	3,500,985	3,040,901	3,572,225	4,099,394	5,961,806

(c) *Trend of Receipts and Disbursements*

i. *Receipts*

Annual Receipts 1947 as compared with 1943 show an increase of approximately \$2,343,685.00 or 38.6 per cent. This increase is due in large part to increased revenue from:

Land and Recreational Areas.....	\$ 256,865.00
Timber Management.....	1,961,823.00
Land Tax.....	58,461.00
Miscellaneous.....	41,804.00
Water Power.....	32,083.00

\$2,351,036.00

ii. *Disbursements*

Annual Disbursements 1947 as compared with 1943 show an increase of \$2,460,821.00 or 70.3 per cent. This increase is accounted for in large part by the following items:

Main Office.....	\$ 161,665.00
Air Service.....	334,053.00
Forest Research.....	221,174.00
Basic Organization, Extra Fire Fighting and Scaling.....	1,897,489.00
Construction and Operating Forest Ranger School.....	323,429.00
Reforestation.....	208,976.00

\$3,146,786.00

Less special Disbursements applicable in 1943:

Hydro-Electric Power Commission of Ontario re Long Lac Diversion.....	400,000.00
Lignite Development Project.....	299,993.00

699,993.00

\$2,446,793.00

(d) *Fish and Wildlife Division*

Receipts and Disbursements of this Division are separately shown in Schedule G, page 24.

Schedule A.

DEPARTMENT OF
STATEMENT OF RECEIPTS
FOR THE YEAR ENDING

RECEIPTS

DIVISION OF ACCOUNTS	
Water Power Rentals.....	\$ 680,568.56
Provincial Land Tax.....	204,474.57
Long Lac Diversion.....	20,400.00
Casual Fees, Surveys Office Fees, etc.	11,070.65
Contractors' Security Deposits	
Forest Ranger School.....	20,000.00
Forest Resources Inventory.....	15,000.00
	<u>\$ 951,513.78</u>

DIVISION OF LAND AND RECREATIONAL AREAS

Land Sales	
Agricultural.....	\$ 27,157.22
Summer Resort	54,976.37
Townsites.....	28,377.60
University.....	401.49
Clergy School.....	288.00
Common School.....	148.00
Miscellaneous.....	40,151.34
Unallocated.....	110,365.94
	<u>261,865.96</u>

Land Rentals (Other than Parks)	
Leases and Licenses of Occupation.....	95,445.89
Bruce Beach.....	1,591.72
Timagami Islands.....	1,855.56
	<u>98,893.17</u>

Park Revenue	
Algonquin	
Rentals.....	\$ 9,355.82
Miscellaneous.....	21,882.41
	<u>31,238.23</u>

Rondeau	
Rentals.....	12,950.03
Miscellaneous.....	3,048.61
	<u>15,998.64</u>

Quetico	
Rentals.....	60.75
Miscellaneous.....	13,694.31
	<u>13,755.06</u>

Ipperwash Beach	
Miscellaneous.....	1,238.25
	<u>62,230.18</u>

Miscellaneous Revenue.....	7,655.05	
	<u>\$1,382,158.14</u>	
Carried Forward.....		\$1,382,158.14

Schedule A.

LANDS AND FORESTS
AND DISBURSEMENTS
MARCH 31, 1947

DISBURSEMENTS

MAIN OFFICE

Minister's Salary—Statutory	\$ 8,000.00	
Salaries—Permanent and Temporary	445,994.29	
Travelling Expenses	33,446.70	
Maintenance and Operating	68,199.80	
Damage and Other Claims, Sundry Contingencies, etc.	595.00	
Compensation for Injured Workmen	23,140.73	
Cost of Living Bonus—Entire Department	1,604.96	
Unemployment Insurance Stamps	51.51	
Annuities and Bonuses to Indians	24,508.00	
Refund to Municipalities re Timber Dues	806.05	
Refund to University of Toronto re Wild Lands	246.62	
		\$ 606,593.66

FIELD SERVICES

DIVISION OF SURVEYS

Grant—Board of Surveyors	200.00	
Aerial Surveys, Salaries, etc.	1,882.82	
Ground Surveys, Miscellaneous Expenses	39,843.07	
		41,925.89

DIVISION OF FOREST RESEARCH (See Schedule "D" Page 21)

Salaries—Temporary	83,651.45	
Travelling Expenses	15,277.29	
Maintenance and Operating	122,245.54	
		221,174.28

FIELD OPERATIONS (Including Provincial Parks)

Basic Organization (See Schedule "E" Page 22)

Salaries	1,509,860.80	
Travelling Expenses	108,577.75	
Maintenance and Operating	1,689,751.97	
		3,308,190.52

Extra Fire Fighting

Salaries—Temporary	205,201.34	
Travelling Expenses	10,367.17	
Maintenance and Operating	86,222.82	
		301,791.33

Scaling

Salaries—Temporary	343,519.19	
Travelling Expenses	24,288.82	
Maintenance and Operating	15,592.19	
		383,400.20

Clearing Townsites and Removal of Fire Hazards

Salaries, etc. Maintenance and Operating	4,255.28	
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Carried Forward \$4,867,331.16

Schedule (A *Continued*)

DEPARTMENT OF
STATEMENT OF RECEIPTS
FOR THE YEAR ENDING

RECEIPTS

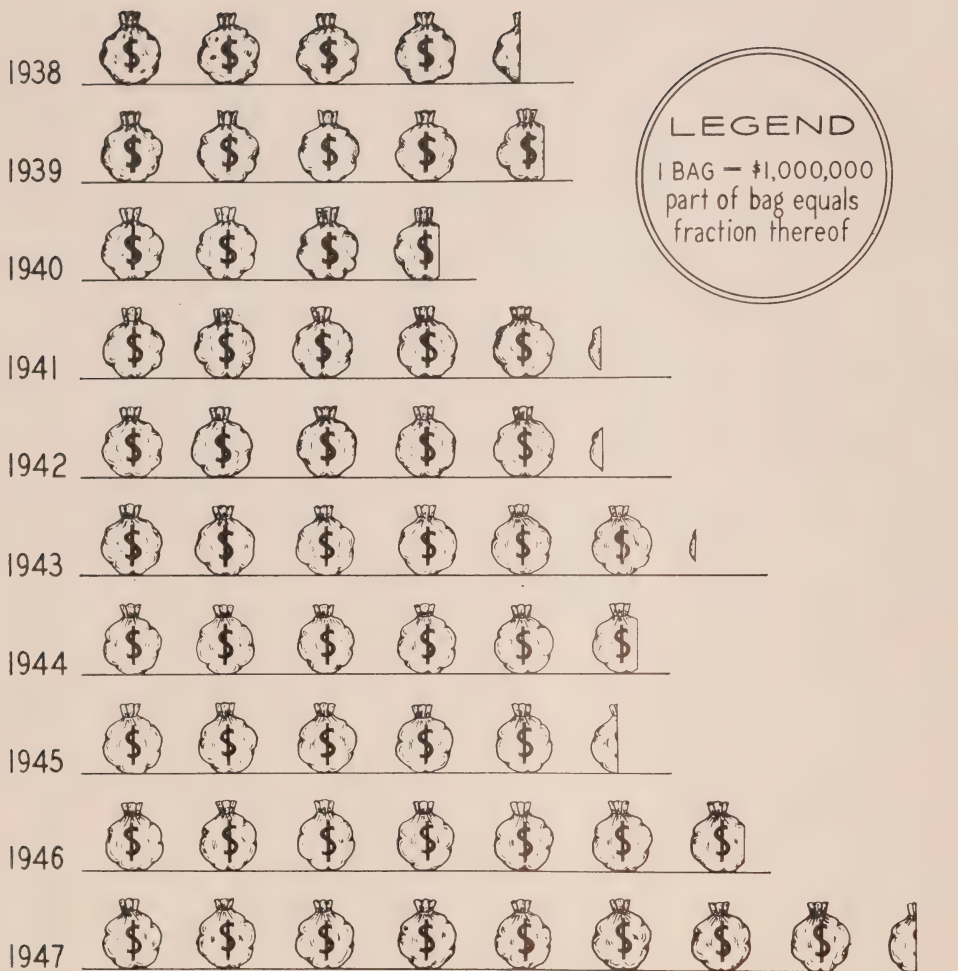
Brought Forward.....	\$1,382,158.14
DIVISION OF FOREST PROTECTION	
Miscellaneous.....	46,401.74
DIVISION OF TIMBER MANAGEMENT (See Schedule "C" Page 20)	
Crown Dues.....	\$6,175,443.93
Ground Rent.....	125,060.70
Fire Tax.....	461,163.51
Scalers' Wages.....	9,041.63
Interest.....	6,184.37
Mill Licenses.....	1,000.51
Cullers Examination Fees and Sundry.....	1,425.63
Cash Deposits.....	164,784.11
	<hr/> 6,944,104.39
DIVISION OF SURVEYS	
Aerial Surveys—Net Receipts.....	1,651.44
DIVISION OF AIR SERVICE	
Miscellaneous.....	15,258.36
DIVISION OF REFORESTATION	
Miscellaneous.....	25,373.17
	<hr/> \$8,414,947.24

Schedule A (*Continued*)LANDS AND FORESTS
AND DISBURSEMENTS
MARCH 31, 1947

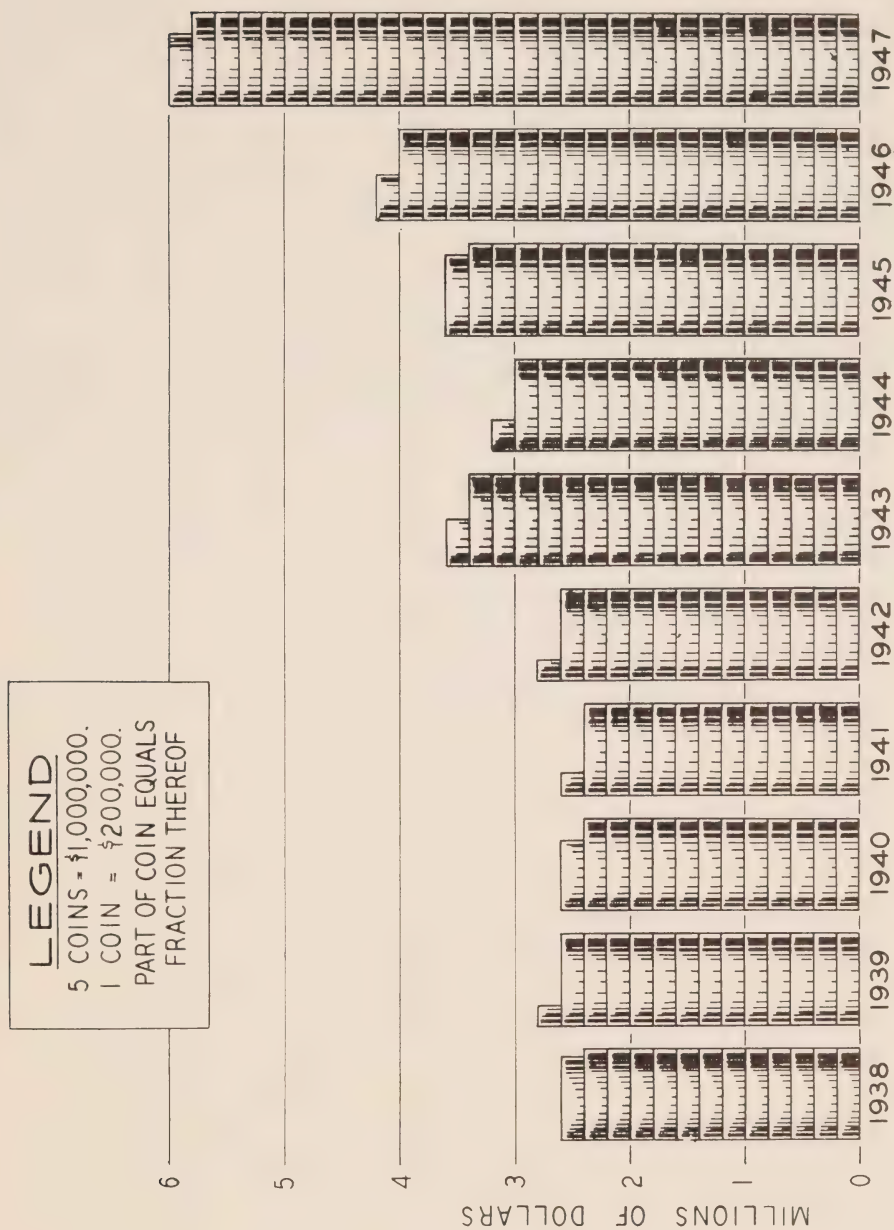
DISBURSEMENTS

Brought Forward		\$4,867,331.16
DIVISION OF AIR SERVICE (See Schedule "F" Page 23)		
Salaries	\$ 198,985.58	
Travelling Expenses	5,649.17	
Maintenance and Operating	402,433.28	
		607,068.03
DIVISION OF REFORESTATION		
Salaries	\$ 348,298.24	
Travelling Expenses	28,039.14	
Maintenance and Operating	110,662.90	
		487,000.28
Grants to Municipalities in Compensation for Loss of School Taxes	406.49	
		487,406.77
Total Disbursements		5,961,805.96
Excess of Receipts over Disbursements—Paid into the Consolidated Revenue Fund of the Province		2,453,141.28
		\$8,414,947.24

Fish and Wildlife Division—Receipts and Disbursements are not included in the foregoing. These are separately shown in Schedule "G" Page 24.



RECEIPTS FOR THE FISCAL YEARS 1938-1947.



DISBURSEMENTS FOR THE FISCAL YEARS 1938-1947.

Schedule B

DEPARTMENT OF
COMPARISON OF RECEIPTS FOR

	1943
DIVISION OF ACCOUNTS	
Water Power Rentals.....	\$ 648,484.87
Provincial Land Tax.....	146,013.91
Long Lac Diversion.....	44,850.00
Refunds—Re Flowage Easements.....	113.20
Casual Fees, etc.....	3,191.91
Galt Lease.....	
Contractor's Security Deposit on Forest Insect Laboratory Construction Project.....	
Contractor's Security Deposit on Forest Ranger School.....	
Contractor's Security Deposit on Forest Resources Inventory.....	
	<u>842,653.89</u>
DIVISION OF LAND AND RECREATIONAL AREAS	
Land Sales.....	69,162.08
Land Rentals (Other than Parks).....	65,982.01
Park Revenue—Including Park Rentals	
Algonquin.....	18,508.87
Rondeau.....	13,402.73
Quetico.....	5,983.60
Ipperwash Beach.....	739.61
Miscellaneous Revenue.....	962.06
	<u>174,740.96</u>
DIVISION OF FOREST PROTECTION	
Radio Service.....	23,155.68
Miscellaneous.....	28,669.50
	<u>51,825.18</u>
DIVISION OF TIMBER MANAGEMENT	
Crown Dues, Ground Rent, Fire Tax, etc.....	4,982,281.03
DIVISION OF SURVEYS	
Lac Seul Storage Dam.....	
Aerial Surveys—Net Receipts.....	3,438.31
	<u>3,438.31</u>
DIVISION OF AIR SERVICE	
Miscellaneous.....	6,945.96
DIVISION OF REFORESTATION	
Miscellaneous.....	8,453.36
LIGNITE DEVELOPMENT	
Miscellaneous.....	923.75
Total Receipts.....	<u>\$6,071,262.44</u>

Schedule B

LANDS AND FORESTS

5 YEARS ENDING MARCH 31, 1947

1944	1945	1946	1947
\$ 618,901.26	\$ 609,425.12	\$ 654,978.77	\$ 680,568.56
158,744.95	175,341.55	209,459.44	204,474.57
21,750.00	21,300.00	20,850.00	20,400.00
93.76	.....	.....	.....
2,924.52	4,719.34	9,047.69	11,070.65
2,921.00	669.00	.....	.....
.....	15,000.00	.....	.....
.....	.....	.....	20,000.00
.....	.....	.....	15,000.00
805,335.49	826,455.01	894,335.90	951,513.78
118,745.26	155,219.01	193,061.14	261,865.96
107,517.94	89,484.59	90,988.56	98,893.17
22,422.53	19,573.53	23,759.48	31,238.23
15,201.66	15,152.86	15,017.47	15,998.64
6,435.81	7,572.01	8,868.97	13,755.06
235.80	623.15	575.50	1,238.25
3,195.43	6,683.40	5,986.66	7,655.05
273,754.43	294,308.55	338,257.78	430,644.36
22,916.40	26,850.25	30,942.78	46,401.74
22,916.40	26,850.25	30,942.78	46,401.74
4,561,733.49	4,241,581.00	5,554,781.31	6,944,104.39
11,685.22	.....	.....	.....
1,607.26	1,274.94	458.95	1,651.44
13,292.48	1,274.94	458.95	1,651.44
19,448.31	12,416.85	25,284.13	15,258.36
26,137.92	10,558.66	19,386.47	25,373.17
16.44	.....	.....	.....
\$5,722,634.96	\$5,413,445.26	\$6,863,447.32	\$8,414,947.24

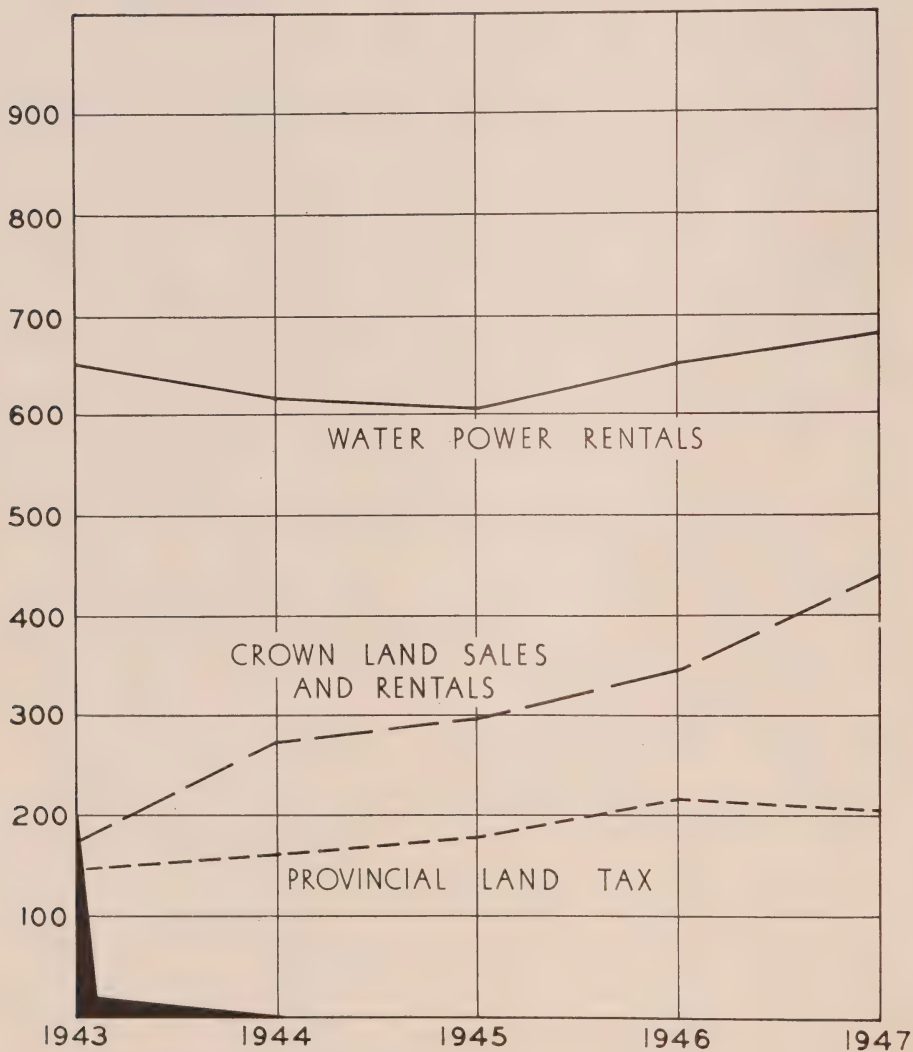
Fish and Wildlife Division Receipts not included in the foregoing. Receipts for year ending March 31st, 1947, are shown in Schedule "G" Page 24.

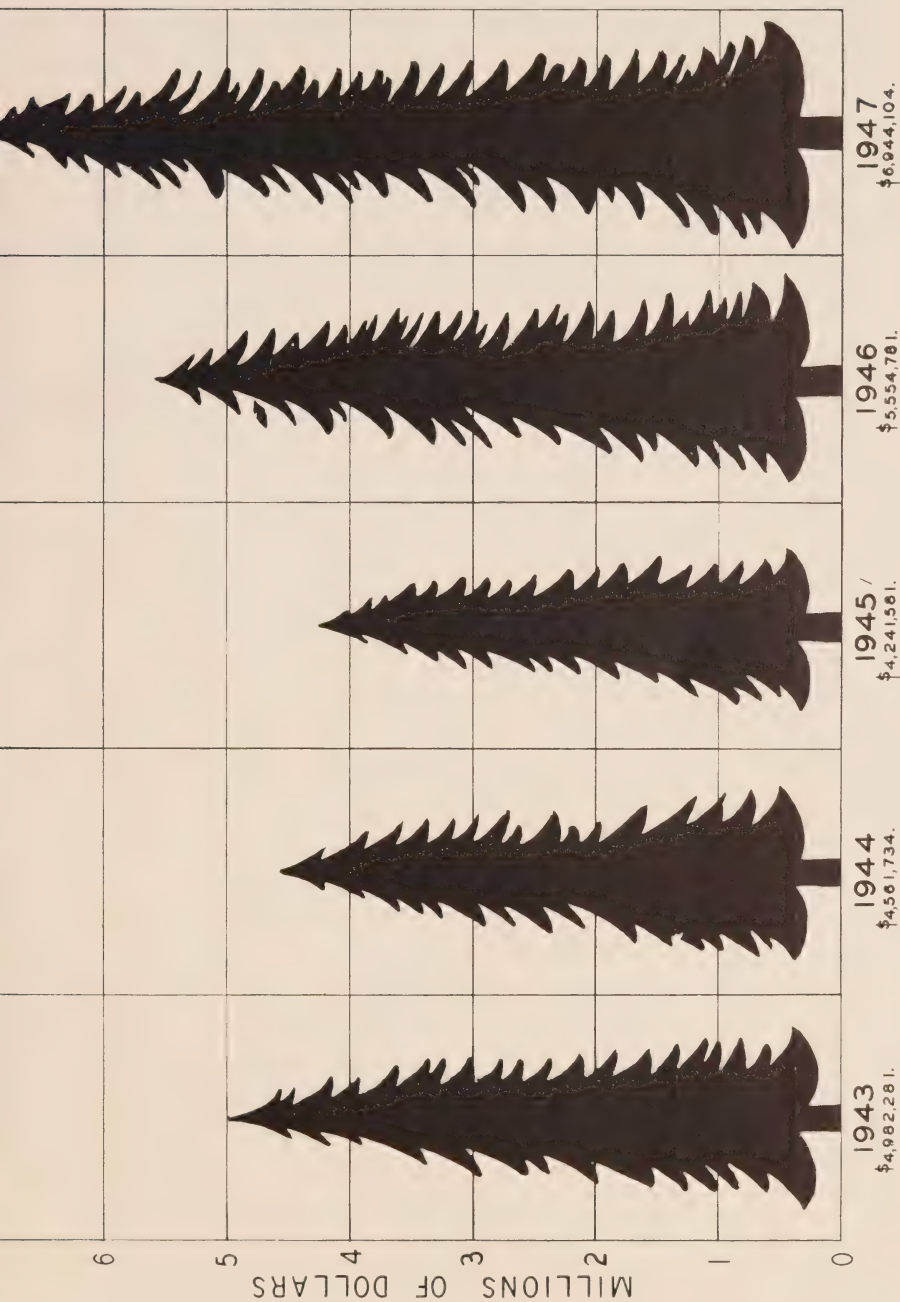
TREND OF DEPARTMENTAL REVENUE

WATER POWER RENTALS
CROWN LAND SALES AND RENTALS
PROVINCIAL LAND TAX

THOUSANDS
OF DOLLARS

FOR THE FIVE YEARS
ENDING 31 MARCH 1947





TREND OF DEPARTMENTAL REVENUE

TIMBER RETURNS—CROWN DUES—GROUND RENT & FIRE TAX CHARGES

FOR THE FIVE YEARS ENDING 31 MARCH 1947

Schedule C

DEPARTMENT OF LANDS AND FORESTS
DIVISION OF TIMBER MANAGEMENT
ANALYSIS OF CASH RECEIPTS BY DISTRICTS
For Year ending March 31, 1947

District	Crown Dues	Ground Rent	Fire Tax	Scalers Wages	Interest	Mill Licenses	Cullers Exam. fees and Sundry	Total Revenue	Cash Deposits	Total Re- venue and Cash Dep.
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Chapleau.....	20,842.00	330.00	480.00	14.00				21,666.00		21,666.00
Cochrane.....	881,252.00	14,243.00	61,205.00	2,194.00	772.00	67.00		959,733.00	34,308.00	994,041.00
Fort Frances.....	190,843.00	2,650.00	3,501.00	101.00	15.00	15.00		197,125.00	675.00	197,800.00
Geraldton.....	523,720.00	26,325.00	44,154.00	222.00	90.00	21.00		594,532.00		594,532.00
Gogama.....	44,203.00	195.00	256.00		1,554.00			46,208.00		46,208.00
Kapuskasing.....	931,725.00	5,805.00	51,232.00	1,544.00	157.00	8.00		990,471.00	1,607.00	988,864.00
Kenora.....	238,491.00	3,380.00	37,562.00	417.00		26.00		279,876.00	200.00	280,076.00
Lindsay.....	1,115.00							1,115.00		1,115.00
North Bay.....	587,588.00	12,140.00	31,994.00	1,458.00	755.00	111.00		634,046.00	35,690.00	669,736.00
Parry Sound.....	119,642.00	6,259.00	8,065.00	192.00	144.00	58.00	3.00	134,363.00	5,075.00	139,438.00
Pembroke.....	116,238.00	14,413.00	28,686.00	55.00	19.00	95.00		159,506.00	45,600.00	205,106.00
Port Arthur.....	1,539,240.00	13,111.00	82,592.00	417.00	2,025.00	72.00		1,657,437.00	4,000.00	1,661,437.00
Sault Ste. Marie*	459,728.00	7,885.00	62,604.00	8.00	33.00	337.00		530,595.00	17,786.00	548,381.00
Sioux Lookout.....	113,466.00	4,070.00	12,883.00		153.00	15.00		130,587.00	14,050.00	144,637.00
Sudbury.....	280,316.00	8,691.00	28,947.00	2,244.00	24.00	61.00		320,283.00	2,800.00	323,083.00
Tweed.....	107,035.00	5,564.00	7,003.00	176.00	443.00	114.00		120,335.00	6,207.00	126,542.00
Unallocated.....							1,422.00	1,422.00		1,422.00
	6,175,444.00	125,061.00	461,164.00	9,042.00	6,184.00	1,000.00	1,425.00	6,779,320.00	164,784.00	6,944,104.00

*Kirkwood Forest included.

Schedule D

DEPARTMENT OF LANDS AND FORESTS
FOREST RESEARCH DIVISION—PROJECTS
STATEMENT OF EXPENDITURE
(Including General Office)
FOR YEAR ENDING MARCH 31, 1947

PROJECT	TOTAL COST
Bud Worm Spraying.....	\$ 111,750.62
Experiment Station.....	38,078.98
Pump and Hose Test.....	11,091.10
Sulphur Fumes Investigation.....	19,940.33
Soil Surveys.....	24,419.78
Goulais River Road Improvement.....	1,480.58
Biology.....	14,700.43
Wild Life.....	7,809.75
Seed Production Experiment.....	3,134.65
Fisheries (Culvert).....	89.18
Nature Study.....	2,169.78
Radio Experiments.....	4,224.62
Stumpage.....	1,243.11
Regeneration Surveys.....	22,036.91
Total Direct Expenditures on Projects.....	262,169.82
Main Office Administration.....	26,706.62
Total Expenditure on Forest Research.....	\$ 288,876.44

DISTRIBUTION OF EXPENDITURE

Forest Research—Field Service.....	\$ 221,174.28
Forest Research—Main Office.....	25,030.29
Basic Organization—Equipment and Improvements.....	42,671.87
	\$ 288,876.44

Schedule E

DEPARTMENT OF LANDS AND FORESTS

BASIC ORGANIZATION

ANALYSIS OF EXPENDITURES BY DIVISIONS RESPONSIBLE,

SHOWING COST BY SERVICES

FOR YEAR ENDING MARCH 31, 1947

DIVISION	SERVICE	AMOUNT
Forest Protection	Fire Ranging	\$1,368,718.41
	Forest Ranger School	323,429.27
	Forest Insect Laboratory	6,567.00
	Parry Sound Area seen mapping	1,484.41
		<hr/> \$1,700,199.09
Reforestation	Land Purchases	58,760.56
	Equipment	58,928.70
		<hr/> 117,689.26
Land and Recreational Areas	Administration and Inspections	134,590.83
	Parks—	
	Algonquin	90,561.25
	Quetico	21,921.93
	Sibley	3,022.59
	Lake Superior	4,042.14
	Rondeau	20,015.83
	Ipperwash Beach	3,589.45
		<hr/> 277,744.02
Timber Management	Administration and Inspections	136,529.67
	Management Surveys—	
	Kirkwood Forest	17,278.56
	Petawawa	11,294.87
	Goulais River	2,132.20
	Aerial Surveys	39,128.90
	Forest Resources Inventory	336,775.67
	Long Lac Diversion	898.66
		<hr/> 544,038.53
Operation and Personnel	Storage Warehouse	13,663.64
	Fire Prevention—Information and Education	194,349.34
		<hr/> 208,012.98
Forest Research	Equipment	26,894.35
	Improvements	15,777.52
		<hr/> 42,671.87
TOTAL—By Services—Exclusive of General Administration and Supervision		2,890,355.75
General Field Office Administration and Supervision		417,834.77
TOTAL		<hr/> \$3,308,190.52

Schedule F

DEPARTMENT OF LANDS AND FORESTS
NET COST OF DIVISION OF AIR SERVICE CHARGEABLE TO
FOREST PROTECTION DISTRICTS
FOR YEAR ENDING MARCH 31, 1947

DIVISION OF AIR SERVICE

Disbursements per Schedule A.....	\$ 607,068.03	
Receipts per Schedule A.....	15,258.36	
Net Cost of Division of Air Service.....		\$ 591,809.67

The above costs have been charged to the following District Offices
as additional costs of Forest Protection—

Algonquin.....	24,029.72
Chapleau.....	27,281.86
Cochrane.....	22,488.77
Fort Frances.....	39,100.39
Gogama.....	15,478.86
Geraldton.....	54,053.82
Kapuskasing.....	16,920.25
Kenora.....	17,695.67
North Bay.....	35,034.01
Port Arthur.....	95,424.02
Sault Ste. Marie.....	65,290.44
Sioux Lookout.....	140,184.75
Sudbury.....	29,490.91
Toronto (Headquarters Flights).....	2,334.05
Dusting.....	933.62
Sulphur Fumes.....	6,068.53

TOTAL.....	\$ 591,809.67
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Schedule G.

DEPARTMENT OF
FISH AND WILD
STATEMENT OF RECEIPTS
ENDING
(BASED ON THE ESTIMATES
OF GAME

RECEIPTS

GAME

Licences

Trapping.....	\$ 62,498.15
Non-resident Hunting.....	361,887.20
Deer.....	196,548.80
Moose.....	9,316.45
Gun.....	132,906.53
Dog.....	11,420.75
Fur Dealers.....	34,322.00
Fur Farmers.....	8,415.00
Tanners.....	130.00
Cold Storage.....	295.00

817,739.88

Royalty on Furs..... 211,640.75

\$1,029,380.63

FISHERIES

Licences

Fishing (Commercial).....	97,356.00
Angling.....	1,000,866.37

1,098,222.37

Royalty on Commercial Fish..... 12,116.85

1,110,339.22

GENERAL

Licences

Tourist Camps.....	7,290.00
Guides.....	12,734.00

20,024.00

Fines (Enforcement of Act)..... 44,266.85

Costs Collected (Enforcement of Act)..... 1,216.45

Sales—Confiscated Articles..... 37,201.91

Rent from Employees and others..... 2,718.00

Commission retained by Province on sale of licences by Employees
of the Crown..... 1,372.86

Miscellaneous..... 1,680.73

108,480.80

\$2,248,200.65

LANDS AND FORESTS

Schedule G.

LIFE DIVISION

AND DISBURSEMENTS FOR YEAR

MARCH 31, 1947

ALLOTTED TO THE FORMER DEPARTMENT
AND FISHERIES)

DISBURSEMENTS

ORDINARY			
Main Office			
Salaries—Permanent.....	\$	60,819.35	
—Temporary.....		14,774.02	
		<u>75,593.37</u>	
Travelling Expenses.....		4,163.94	
Maintenance.....		15,729.80	
		<u> </u>	\$ 95,487.11
General			
Moving Expenses of Officers of the Department.....		982.74	
Unforeseen and Unprovided.....		5.00	
Purchase of and Repairs to Boats, Boathouses, Machinery and Vehicles.....		2,737.38	
Compensation for Injured Workmen.....		755.45	
Cost of Living Bonus.....		301.77	
Unemployment Insurance Stamps.....		289.93	
Exhibits, Advertising and Educational.....		4,220.81	
		<u> </u>	9,293.08
Districts—(Enforcement of the Ontario Game and Fisheries Act)			
Salaries and Expenses.....			516,263.72
Game Animals and Birds			
Purchase of Birds and Sundry Expenses.....			35,471.25
Macdiarmid			
Salaries.....		3,062.06	
Expenses.....		1,213.74	
		<u> </u>	4,275.80
Biological and Fish Culture Branch			
General Office			
Salaries—Permanent.....	\$	14,702.87	
—Temporary.....		6,961.27	
		<u>21,664.14</u>	
Travelling Expenses.....		4,318.65	
Maintenance.....		5,400.63	
		<u> </u>	31,383.42
Hatcheries			
Salaries and Expenses.....		314,560.86	
		<u> </u>	345,944.28
Grants:			
Jack Miner.....		1,500.00	
Thomas N. Jones.....		300.00	
E. L. Marsh.....		100.00	
Ontario Fur Breeders' Association Inc.....		2,500.00	
Ontario Federation of Commercial Fishermen.....		1,500.00	
		<u> </u>	5,900.00
Wolf Bounty and Sundry Expenses.....			59,275.18
Bear Bounty and Sundry Expenses.....			9,797.42
		<u> </u>	
Total Ordinary.....			1,081,707.84
CAPITAL			
Erecting Buildings, Purchase of Land Buildings and Equipment.....			116,266.61
		<u> </u>	
Total Disbursements.....			1,197,974.45
Excess of Receipts over Disbursements			
Paid into the Consolidated Revenue Fund of the Province.....			1,050,226.20
		<u> </u>	
			<u>\$2,248,200.65</u>



NORSEMAN AIRCRAFT OBN, OF THE DIVISION OF AIR SERVICE, TAXIING IN TO DOCK AT LILLABELLE LAKE.

DIVISION OF AIR SERVICE

As the fire hazard in the summer of 1946 was moderate, the Air Service was not overtaxed in its forest fire detection and suppression duties.

The Department operated from five winter stations; Smoke Lake (Algonquin Park), Eva Lake (Quetico Park), Geraldton, Gogama and Sioux Lookout. The flying was largely in connection with general forestry administration, fish and wildlife, poaching, and emergency sickness and accident cases.

Equipment

Four new Norseman aircraft were purchased.

The Department submitted specifications to the De Havilland Aircraft Company of Canada for the building of a semi-transport type of plane. Company engineers examined the specifications, and reports have been encouraging.

Maintenance and Improvements

Construction of an addition to the main hangar at Sault Ste. Marie has been undertaken by the Department of Public Works to provide storage for approximately fifty aircraft.

Co-operation with the Royal Commission on Forestry, and other Government Departments.

Assistance was accorded Dominion Government entomologists in their forest insect infestation surveys. The agreement effected the previous year with the Department of Health was extended to include the Provincial Police. Co-operation was continued with other Departments of the Ontario Government in supplying their flying needs, as required.

In addition the Air Service supplied 272 hours of flying to the Royal Commission on Forestry, which greatly expedited its work.

Accidents

It is a great pleasure to report that there were no serious accidents to any of the Air Service personnel during the year.

Statistics

The following tables give details of operation:

Tables

Table No. 1—Allocation of aircraft.

Table No. 2—Transport aircraft—hours flown and effective loads carried.

Table No. 3—Hours flown on various phases of flying operations.

Table No. 4—Totals.

Table No. 5—Hours flown at bases.

Table No. 6—Flying time—Pilots—for the fiscal year ending March 31, 1947.

Table No. 7—Flying time—Aircraft—for the fiscal year ending March 31, 1947.

TABLE No. 1

ALLOCATION OF AIRCRAFT

1946-47

<i>Base</i>	<i>Registration</i>	<i>Type</i>
Algonquin Park	CF-BGM	Stinson
	CF-BIM	Stinson
Biscotasing	CF-OBF	Norseman
	G-CAOU	Moth
Caribou Lake	CF-OB1	Norseman
Fort Frances	CF-OBM	Norseman
Ignace	CF-OAV	Stinson
Kenora	CF-OB D	Norseman
Oba Lake	CF-OBH	Norseman
	G-CAOZ	Moth
Orient Bay	CF-OBG	Norseman
	CF-OB L	Norseman
Pays Plat	CF-OAW	Stinson
Port Arthur	CF-OBE	Norseman
Pickle Lake	CF-OAP	Fairchild 71
Red Lake	CF-BGN	Stinson
Remi Lake	CF-BGJ	Stinson
Sault Ste. Marie	CF-OBA	Stinson
	CF-OB O	Norseman
	G-CAOW (Spare)	Moth
Sioux Lookout	CF-OB C	Norseman
	CF-OB B	Stinson
Sudbury	CF-BDQ	Waco
	CF-OAS	Buhl
South Porcupine	CF-OAY	Stinson
Timagami	CF-OB J	Norseman
Twin Lakes	CF-OB N	Norseman
	G-CAPB	Moth
	G-CAPA	Moth
Toronto	CF-OBK	Canso

TABLE No. 2
TRANSPORT AIRCRAFT—EFFECTIVE LOADS CARRIED
1946-47

AIRCRAFT		HOURS FLOWN	EFFECTIVE LOAD
Buhl	CF-OAS	219.30	72,460 lbs.—36 Tons, 460 lbs.
Fairchild 71	CF-OAP	193.35	102,870 lbs.—51 Tons, 870 lbs.
Norseman	CF-OBC	247.00	177,410 lbs.—88 tons, 1410 lbs.
	CF-OB D	297.35	192,250 lbs.—96 tons, 250 lbs.
	CF-OBE	375.55	313,320 lbs.—156 tons, 1320 lbs.
	CF-OB F	391.55	329,173 lbs.—164 tons, 1173 lbs.
	CF-OB G	484.20	307,360 lbs.—153 tons, 1360 lbs.
	CF-OB H	384.00	167,356 lbs.—83 tons, 1356 lbs.
	CF-OB I	299.10	167,465 lbs.—83 tons, 1465 lbs.
	CF-OB J	308.45	229,877 lbs.—114 tons, 1877 lbs.
	CF-OB L	276.20	228,310 lbs.—114 tons, 310 lbs.
	CF-OB M	252.05	273,200 lbs.—136 tons, 1200 lbs.
	CF-OB N	103.20	52,675 lbs.—26 tons, 675 lbs.
	CF-OB O	117.30	45,830 lbs.—22 tons, 1830 lbs.
Stinson	CF-OBA	298.25	131,640 lbs.—65 tons, 1640 lbs.
	CF-OB B	276.00	105,912 lbs.—52 tons, 1912 lbs.
	CF-BG J	374.05	159,013 lbs.—79 tons, 1013 lbs.
	CF-BG M	343.35	204,203 lbs.—102 tons, 203 lbs.
	CF-BIM	451.35	197,186 lbs.—98 tons, 1186 lbs.
	CF-BG N	282.40	140,285 lbs.—70 tons, 285 lbs.
	CF-OAV	247.45	124,615 lbs.—62 tons, 615 lbs.
	CF-OAW	347.45	169,649 lbs.—84 tons, 1649 lbs.
	CF-OAY	364.50	81,585 lbs.—40 tons, 1585 lbs.
Waco	CF-BDQ	228.50	106,980 lbs.—53 tons, 980 lbs.
Canso	CF-OBK	422.25	998,100 lbs.—499 tons, 100 lbs.

TOTAL TRANSPORT SECTION:—

Total Flying Time	Hours	7,588.55
Total Loading	Pounds	5,078,724
Total Loading	Tons	2,539 tons, 724 lbs.

TABLE No. 3
HOURS FLOWN ON VARIOUS PHASES OF FLYING OPERATIONS

	1924-46	1946-47	Total
Fire Detection.....	42,483.40	1,082.40	43,566.20
Game Conservation.....	417.00	446.20	863.20
Fire Suppression.....	34,815.16	1,230.00	36,045.16
Photography.....	1,404.15	9.05	1,413.20
Sketching.....	3,863.53	223.40	4,087.33
Transportation—Ordinary.....	37,383.10	3,473.50	40,857.00
Transportation—Special.....	7,105.37	938.10	8,043.47
Mercy Flights.....	275.17	39.15	314.32
Ferrying.....	6,327.37	210.30	6,538.07
Forced Landings.....	916.24	27.25	943.49
Flying Instruction.....	2,962.47	14.15	2,977.02
Observers Instruction.....	94.09	.....	94.09
Operations.....	5,464.53	230.00	5,694.53
Tests Aircraft.....	1,524.57	49.50	1,574.47
Dusting Operations—Ont. Govt.....	41.35	284.30	326.05
Dusting Operations—B.C. Govt.....	.....	86.20	86.20
Tests—Radio.....	83.40	2.00	85.40
Department of Entomology.....	99.45	202.15	302.00
Department of Research (Sulphur Fumes)....	99.30	151.05	250.35
	145,363.25	8,701.10	154,064.35

TABLE No. 4
TOTALS

	1924-46	1946-47	Total
Passengers Carried.....	103,170	18,079	121,249
Personnel Carried.....	75,954	4,101	80,055
Total Passengers and Personnel Carried.....	179,124	22,180	201,304
Effective Loads Flown, Lbs.....	37,646,194	5,230,897	42,877,091
Effective Loads Flown, Tons.....	18,823T 194lbs.	2,615T 897lbs.	21,438T 1,091lbs.

TABLE NO. 5
HOURS FLOWN AT BASES
1946-47

Base	Hours Flown
Algonquin Park.....	620.45
Biscotasing.....	606.00
Caribou Lake.....	296.00
Fort Frances.....	579.25
Ignace.....	248.15
Kenora.....	305.35
Oba Lake.....	565.10
Orient Bay.....	544.40
Pays Plat.....	361.20
Pickle Lake.....	188.10
Port Arthur.....	374.35
Red Lake.....	282.50
Remi Lake.....	373.50
Sault Ste. Marie.....	490.40
South Porcupine.....	356.25
Sioux Lookout.....	675.25
Sudbury.....	343.55
Timagami.....	371.55
Twin Lakes.....	571.25
Toronto.....	22.55
	8179.15
Dusting Operations—B.C. Govt.....	86.20
Dusting Operations—Ont. Govt.....	284.30
Sulphur Fumes Sampling.....	151.05
Total.....	8701.10

TABLE NO. 6
FLYING TIME—PILOTS

Pilots	1924-46	1946-47	Totals
Bliss, W. H. F.....	.....	91.20	91.20
Burt, A. E.....	1,373.50	416.50	1,790.40
Buckworth, W. B.....	2,550.50	382.50	2,933.40
Burton, E. C.....	1,144.35	307.45	1,452.20
Blockley, H. T.....	.....	240.40	240.40
Charity, G. E.....	744.40	266.30	1,011.10
Crossley, C. C.....	5,711.28	373.25	6,084.53
Cooke, T. C.....	.....	215.05	215.05
Culliton, J. P.....	2,076.35	410.15	2,486.50
Denley, J. G.....	581.00	268.40	849.40
Donnelly, J. T.....	674.10	359.30	1,033.40
Fiskar, U. W.....	2,113.15	161.50	2,275.05
Gillard, M. V.....	4,407.55	321.35	4,729.30
Johnson, A. S.....	.....	100.20	100.20
Kincaid, J.....	721.35	221.30	943.05
Kingdon, O. F.....	185.50	202.15	388.05
LeFeuvre, C. J.....	2,393.05	383.55	2,777.00
MacDougall, F. A.....	3,068.05	199.00	3,267.05
Ponsford, G. E.....	421.50	18.30	440.20
Pipe, J. T.....	868.05	290.35	1,158.40
Parsons, R.....	1,525.15	433.25	1,958.40
Phillips, G. H. R.....	6,454.50	406.05	6,860.55
Poulin, L. D.....	1,384.15	461.35	1,845.50
Reid, D. M.....	110.20	163.35	273.55
Reilly, J.....	.....	220.10	220.10
Smith, A. B.....	1,172.00	249.25	1,421.25
Siegel, J.....	299.30	210.50	510.20
Speight, H. C.....	623.35	247.45	871.20
Trussler, G. E.....	3,284.40	241.40	3,526.20
Taylor, J. M.....	1,919.20	171.25	2,090.45
Westaway, H. W.....	3,773.10	377.40	4,150.50
Woodside, T.....	3,830.37	285.15	4,115.52
Delahaye, G.....	3,801.00	.....	3,801.00
Noorduyn Pilots.....	9.15	.....	9.15
All other Pilots.....	88,138.50	.....	88,138.50
Total.....	145,363.25	8,701.10	154,064.35

TABLE No. 7
FLYING TIME—AIRCRAFT

Aircraft	1924-46	1946-47	Total
BUHL			
CF-OAS.....	2,624.50	219.30	2,844.20
FAIRCHILD 71			
CF-OAP.....	2,673.10	193.35	2,866.45
MOTH			
CF-OAA.....	5,014.15	88.25	5,102.40
G-CAPA.....	5,034.40	161.50	5,196.30
G-CAPB.....	5,509.25	220.55	5,730.20
G-CAOU.....	5,078.10	159.15	5,237.25
G-CAOW.....	5,096.07	215.35	5,311.42
G-CAOZ.....	6,282.40	266.15	6,548.55
NORSEMAN			
CF-OBC.....	280.35	247.00	527.35
CF-OB D.....	285.40	297.35	583.15
CF-OBE.....	517.40	375.55	893.35
CF-OBF.....	465.40	391.55	857.35
CF-OBG.....	214.00	484.20	698.20
CF-OBH.....	172.40	384.00	556.40
CF-OB I.....	135.00	299.10	434.10
CF-OB J.....	94.20	308.45	403.05
CF-OB L.....	.....	276.20	276.20
CF-OB M.....	.....	252.05	252.05
CF-OB N.....	.....	103.20	103.20
CF-OB O.....	.....	117.30	117.30
STINSON			
CF-OBA.....	1,213.40	298.25	1,512.05
CF-OB B.....	683.30	276.00	959.30
CF-BG J.....	1,352.20	374.05	1,726.25
CF-BG M.....	2,156.00	343.35	2,499.35
CF-BIM.....	366.10	451.35	817.45
CF-BG N.....	2,055.10	282.40	2,337.50
CF-OAV.....	1,699.25	247.45	1,947.10
CF-OAW.....	2,348.15	347.45	2,696.00
CF-OAY.....	2,051.45	364.50	2,416.35
WACO			
CF-BDQ.....	813.20	228.50	1,042.00
CANSO			
CF-OBK.....	6.05	422.25	428.30
All Other Aircraft.....	91,139.03	.....	91,139.03
Total.....	145,363.25	8,701.10	154,064.35



A FRIENDLY WHITE-TAILED DEER.

DIVISION OF FISH AND WILDLIFE

This is the first report published since the incorporation of the Department of Game and Fisheries into the Department of Lands and Forests as the Division of Fish and Wildlife.

The amalgamation of the two Departments was conceived as a move to bring all the renewable natural resources of the Province under one administration, and the process of transfer was begun in May, 1946. By July, 1946, the move was complete, and Dr. W. J. K. Harkness was selected as chief of the newly formed Division.

Dr. Harkness organized the Division into four separate sections, as follows:

1. *Enforcement:* Under the supervision of Mr. J. F. Farrington. The Enforcement Section is responsible for the proper enforcement of the Game and Fisheries Act and Regulations, has custody of all seized materials, and the sale thereof.

2. *Wildlife:* Dr. C. H. D. Clarke, Supervisor of this Section, has under his control the administration of the game resources of the Province, the payment of wolf and bear bounties, and the administration of the fur resources, both wild and ranch raised.

3. *Game Fish:* Mr. H. H. MacKay is responsible for the proper administration and maintenance of the angling fishery, production of fish by provincial hatcheries, and such scientific surveys and projects as are necessary to ensure proper placing of hatchery raised fish.

4. *Commercial Fish:* Mr. W. H. R. Werner is responsible for the administration of the commercial fishing resources of the Province, including issue of licences and collection of statistical data concerning catches.

The amalgamation of the two Departments was extended into the field, all game and fisheries overseers and inspectors being taken into the forest district organization. In each District a Fish and Wildlife Specialist was appointed, to whom all Overseers in the District are responsible. This specialist, in most cases a senior Overseer, is himself responsible to the District Forester.

LIST OF SPECIALISTS BY DISTRICTS—

<i>District</i>	<i>Fish and Wildlife Specialist</i>
Fort Frances.....	H. E. Pearson
Kenora.....	H. Harris
Sioux Lookout.....	C. L. Perrie
Geraldton.....	J. Noble
Port Arthur.....	R. D. Windsor
Cochrane.....	L. A. Dent
Kapuskasing.....	O. D. Lewis
Chapleau.....	V. Crichton
Gogama.....	C. R. Weaver
North Bay.....	G. M. Parks
Sault Ste. Marie.....	C. F. Cook
Sudbury.....	C. F. Bibby
Algonquin.....	E. L. Skuce
Parry Sound.....	N. McNaughton
Quinte.....	R. G. Sheppard
Rideau.....	R. Baker
Trent.....	A. M. Hodgson
Lake Erie.....	W. Keller
Lake Huron.....	E. R. Meadows
Lake Simcoe.....	J. S. Ellis

The staff of the Fish and Wildlife Division works in close cooperation with many professional associations and sporting associations. Representatives attend meetings of the Ontario Federation of Commercial Fishermen, the Ontario Fur Breeders' Association, and many fish and game protective associations throughout the Province.

Grants were given to the two associations mentioned above, and also the Niagara District Pheasant Breeders' Association, Mrs. E. L. Marsh, Mr. E. T. Jones, and the Jack Miner Migratory Birds Foundation.

Many members of the Head Office staff are closely connected with the Ontario Research Commission, and sit on many of the committees of that organization.

In April, a joint meeting of Fish and Wildlife Technical Personnel of Ontario and New York State was held in Toronto under the sponsorship of the former Department of Game and Fisheries.

In December of 1946, a course was organized at the recently opened Forest Ranger School at Dorset, for the instruction of Fish and Wildlife Specialists and Overseers in the identification and ecology of the principal species of fish, birds and mammals of the Province. This course extended for two weeks and the instruction received was of considerable value. In addition, an opportunity was presented for the instructing staff, drawn from the University of Toronto, the Royal Ontario Museum of Zoology and Head Office, to meet and talk to the field staff.

At the annual meeting of the Department of Lands and Forests, January 21st, 1947, Mr. Lloyd W. Swift, Chief of the Division of Wildlife Management, United States Forest Service, addressed the staff of the Department.

Reports are presented under the headings of the four sections as outlined above.

ENFORCEMENT

On April 1st, 1946, Game and Fisheries Enforcement officers in Ontario numbered 136.

These officers were responsible for enforcement throughout the Province of provisions of the Game and Fisheries Act and Regulations, the Fisheries Act (Canada); the Special Fishery Regulations for the Province of Ontario, and the Migratory Birds Convention Act and Regulations.

Previous to the amalgamation of the Department of Game and Fisheries with the Department of Lands and Forests, these enforcement officers had been subject to direct administration from headquarters at Toronto, though in that portion of the Province lying north and west of the French and Mattawa Rivers and Lake Nipissing, they were under the immediate supervision of district superintendents, viz:—

- (a) at North Bay,—
in the Districts of Nipissing (north of the Mattawa River and Lake Nipissing), Timiskaming, Cochrane, Sudbury and Algoma; and
- (b) at Fort William,—
in the Districts of Thunder Bay, Fort Frances and Kenora.

In the territory south of the French and Mattawa Rivers and Lake Nipissing there were 74 officers; in the territory under supervision through the North Bay office there were 35 officers; and in the territory under supervision through the Fort William office there were 17 officers.

As of March 31, 1947, there were 177 officers in the enforcement service of the Fish and Wildlife Division,—92 in Southern Ontario, 52 in the districts formerly supervised through the North Bay office, and 33 in the districts formerly supervised through the Fort William office. In general terms, Southern Ontario comprises the following forestry districts, viz: Algonquin, Lake Erie, Lake Huron, Lake Simcoe, Parry Sound, Quinte, Rideau and Trent. The area formerly supervised through the North Bay office comprises the following forestry Districts, viz: Chapleau, Cochrane, Gogama, Kapuskasing, North Bay, Sault Ste. Marie and Sudbury. The area formerly supervised through the Fort William office comprises the following forestry Districts, viz: Fort Frances, Geraldton, Kenora, Port Arthur and Sioux Lookout.

The Fish and Wildlife enforcement officers assigned to each District are under the immediate jurisdiction of the District Forester in charge. There is attached to the office of each District Forester a Fish and Wildlife Specialist, whose principal responsibility is to advise enforcement officers in the field and to co-operate in the supervision of the services of these enforcement officers.

Border patrols were maintained during the summer months at various ports of entry from the United States into Ontario, including Fort Frances, Pigeon River, Sault Ste. Marie, Sarnia, Windsor, Fort Erie, Niagara Falls, the Thousand Island Bridge at Ivy Lea, Prescott and Cornwall. The principal service of the officers engaged in these patrols was to advise American visitors on their arrival in Ontario of the requirements of the Special Fishery Regulations and to check the exportation of fish by such non-resident anglers on their departure from the Province.

During the open season for deer in the fall, active road patrols were maintained in several Districts and particularly in those areas in which the hunting of deer was intensive, with a view to contacting hunters returning from their hunting expeditions and checking on the animals which had been taken.

Resulting from the operation of these patrols, much valuable information accrued to this Division, and there is every reason to believe that the activities of the officers who undertook these patrols were responsible for a more rigid compliance with the provisions of our legislation and regulations by those participating in the recreation derived from angling and hunting.

In their work of enforcement, officers of the Department in their respective patrol areas, derived an appreciable degree of assistance from the co-operation of those who held appointments as Deputy Game Wardens. These Deputy Game Warden appointments are of an honorary nature and are provided, on application, to sportsmen and conservationists who are interested in the protection of our fish and wildlife resources. During the year under review, such appointments were provided to more than thirteen hundred applicants. A large percentage of these appointments were made on the recommendation of the respective municipal councils of the various townships established as regulated game preserve areas. While these appointments were province-wide in their scope, it is quite probable that those so appointed in regulated townships confined their assistance to services within the township, along the lines of securing compliance by hunters with provisions of the regulations which governed.

A study of the records reveals the seizure of equipment, as well as fish and game taken illegally, in 2,166 cases.

Particulars of the officers responsible for these seizures are as follows, viz:—

Overseers.....	2,030 cases
Deputy Game Wardens.....	46 cases
Provincial police constables.....	21 cases
Municipal police constables.....	3 cases
Joint Action:	
Overseers and D. G. W.....	43
Overseers and O. P. P.....	14
Overseers and Municipal Police.....	9
	— 66 cases
	<hr/> 2,166 cases

The articles seized as a result of these activities included:—

Live animals and birds in.....	4 cases
Game animals (and portions) and birds in.....	202 cases
Fire arms in.....	976 cases
Fish in.....	305 cases
Nets and fishing gear in.....	150 cases
Angling equipment in.....	321 cases
Spears in.....	65 cases
Pelts and hides in.....	319 cases
Traps and snares in.....	195 cases
Water craft in.....	26 cases
Outboard motors in.....	10 cases
Motor vehicles in.....	4 cases
Lights (artificial) in.....	52 cases
Miscellaneous articles in.....	73 cases

Further details regarding these seizures are set forth in the following tables:—

Game animals (and portions) and birds:—

Deer and venison and moose and moose meat in..	137 cases
Black and Grey Squirrels.....	4
Pheasants.....	11
Quail.....	1
Partridge.....	30
Ducks.....	14
Rabbits.....	53

Fire Arms:—

.22 calibre rifles.....	497
.25 calibre rifles.....	4
.25/.20 calibre rifles.....	6
.22/410 combination rifle and shotgun.....	2

High-power and heavy calibre rifles, including the following calibres:—.250/.3000; .25/.35; .30; .30/.30; .303; .30/.40; .32; .32/.40; .348; .35; .351; .38/.40; .38/55; .405; .44/.40; .45; .45/.90; .57; 6.5 M.M.; and 8 M.M.....	157
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Shot guns, including single barrel, double barrel, repeating and automatic.....	331
Revolvers.....	2
Air-guns.....	18

Fish:—

Commercial operations.....	21
Illegal netting.....	26
Spearing.....	26
Angling.....	232

Nets and Fishing Gear:—

Gill nets seized in.....	114 cases
Hoop nets seized in.....	9 cases
Seine nets seized in.....	8 cases
Dip nets seized in.....	14 cases
Hook lines seized in.....	10 cases

Pelts and Hides:—

Beaver.....	749
Fisher.....	1
Fox.....	68
Lynx.....	3
Marten.....	1
Mink.....	45
Muskrat.....	472
Otter.....	18
Raccoon.....	42
Skunk.....	1
Squirrel.....	3
Weasel.....	30
Deer and moose hides.....	68

Traps and Snares:—

A total of 1,939 traps and snares were seized, a large proportion of which, on account of the minor or technical nature of the infractions involved, were redeemed for nominal fees by the persons from whom they had been originally seized.

Artificial Lights:—

Flashlights.....	36
Gasoline lanterns.....	6
Coal oil lanterns.....	2
Carbide lamps.....	5
Spotlights.....	6
Jack-lights.....	2

Miscellaneous articles:—

Among the miscellaneous articles which were seized are included the following:—

Decoys.....	48
Tarpaulins and tents.....	4
Pack-sacks.....	14
Haversacks.....	7
Suit-cases.....	4
Trunks.....	1
Axes.....	9
Knives.....	5
Shovels.....	3
Forks.....	1
Metal fish containers.....	6
Storage batteries.....	3
Fish shanties.....	2

As in the case of traps and snares, due to the minor and technical nature of the offences which were responsible for the actual seizures, in a large percentage of the cases involving fire-arms and angling equipment, many of these articles were redeemed for nominal fees by those from whom the seizures were made.

PROSECUTIONS

The statistics in the subjoined tables, and the explanatory remarks which follow may prove of considerable interest to those concerned.

INFORMATIONS

	Seizures	Investigations	Total
Overseers.....	1,789	279	2,068
Provincial Police.....	26	..	26
Joint Action.....	29	6	35
Total.....	1,844	285	2,129

RESULTS OF PROSECUTIONS

	Convictions	Dismissed	Withdrawn	Total
Overseers.....	1,979	85	4	2,068
Provincial Police.....	26	..	..	26
Joint Action.....	35	..	..	35
Total.....	2,040	85	4	2,129

Resulting from patrols and investigation, charges were laid against violators in a total of 2,129 cases in which infractions of provisions of the Game and Fisheries Act and Regulations, the Special Fishery Regulations for Ontario and the Migratory Birds Convention Act and Regulations which had been witnessed or disclosed upon investigation.

In 2,040 of these court actions, convictions were registered by the various Magistrates before whom the respective charges were heard; in 85 cases the charges were dismissed for lack of sufficient substantiating evidence; and in the 4 remaining cases the charges were, for various reasons, withdrawn by the officers who had been responsible for laying the same.

A review of these 2,129 cases which were prosecuted reveals the following information which may presumably be of further interest:

Fish and Wildlife Overseers laid the charges in 2,068 instances; convictions were registered in 1,979 of these, 1,718 of which were subsequent to seizure of equipment on observance of infractions, and 261 following investigation of information which disclosed infractions. The charges laid by Overseers in 85 cases, 67 following seizures and 18 following investigation, were dismissed; and in the remaining 4 cases, all following seizures, the charges were withdrawn.

Provincial Police Constables were responsible for the laying of charges in 26 cases, in all of which this action followed seizures, and in all these cases convictions were registered.

Joint action by Overseers, Deputy Game Wardens, Provincial Police Constables and/or Municipal Police Constables was subsequently followed by the laying of information in 35 cases, all of which were successfully prosecuted and convictions recorded. The charges in 29 of these cases were as a result of, and subsequent to, seizures and the observance of violations, while in the remaining 6 cases the informations were laid following the investigation of evidence of infractions.

WILDLIFE MANAGEMENT

General

The over-all picture with respect to wildlife management in Ontario during the first warless year is not entirely satisfactory. Wartime prosperity had resulted in a steady increase of hunting pressure, despite the absence of a large proportion of able-bodied men in military service, the severe shortage of sporting goods, especially ammunition, and the drastic gasoline rationing. The present year finds all restrictions removed, our fighting men all home and absorbed into civilian occupations, and a general high level of wages and almost complete employment. Similar conditions prevail in the United States. The result is an intensity of hunting pressure, both from residents and non-residents, such as our Province has never before known.

Coupled with increased hunting, there are a number of factors at work that are inimical to wildlife. In farm lands, game has always been dependent on patches of weeds and brush for food and cover, especially such species as European Hare, Pheasant and Hungarian Partridge that do not frequent woodlots. These patches have always been a blight on the landscape from the point of view of clean farming, but, fortunately for the game, really energetic farmers have not been too numerous. We now live in the age of chemical weed and brush killers, and what was once wished for in the way of clean farming, now becomes possible. We also have rural engineers keeping open roads that were formerly allowed to drift in winter, and each patch of weeds and brush on the roadside is a potential snowdrift. Obviously, wildlife management can never exist at cross-purposes with scientific agriculture. If the old food and shelter patches should go, then go they must, but it becomes our task to develop techniques for providing food and shelter that will not be objectionable.

Of a similar nature are local increases of pasture land, conversion of waste land into tobacco farms, and penetration of the vital deer winter range by farming which may superficially leave the country practically unaltered, because miles of barren hills still exist, while actually clearing the swamps which were the sole support in winter of deer ranging the whole area in hunting season. They are offset by some gains, chiefly in the matter of reforestation, and in the management of woodlots but wildlife management still remains largely a matter of executive orders rather than an established part of our land use, though we know that wildlife is a product of the land, not of regulations.

Many of our important wildlife species are at the crossroads today, with a natural tendency to slide into an easy downgrade leading to oblivion—part of the famous road paved with good intentions. The condition of our waterfowl is alarming. The propagation of exotic species can easily be merely a sink hole for public and private funds unless there is food and cover for the birds in the area in which they are released, and unless they are protected at release from the shock of changing their environment. Our moose have shown a distinct tendency to go downhill. Our caribou have nearly vanished. Now they are hanging on and could reasonably be headed upward if we give them a little help. Beaver are abundant, and will stay that way if we give them help. Other fine fur bearers are scarce, but where trappers can get a good revenue from beaver the other species can spread out from the game preserves without being persecuted to extinction.

Migratory Birds

The regulations respecting migratory birds are established by federal authority under the Migratory Birds Convention Act. There is no doubt that the situation of our ducks and geese is more alarming than it has been since 1936. They have shown a sharp decline for the second year in succession, and the report of the mid-winter inventory organized by the United States Fish and Wildlife Service shows a critical condition. Checks of hunters' bags of ducks are reported to have shown a shortage of young birds, and this is reflected also in reports of goose hunters visiting James Bay. For the first time the mid-winter duck count was extended to the entire winter range of ducks and our officers participated by counting ducks on Ontario open waters during the census period.

Woodcock seem to be holding their numbers. A series of counts to check the abundance of this species on Ontario nesting grounds was commenced.

Upland Game (Native)

The various species of grouse now show a general increase, after having been at the bottom of their natural cycle. In a few areas the increase is well enough advanced that the birds can no longer be called scarce, while in others the increase has still not begun. A fairly general increase in snowshoe rabbits is also reported. Cottontail rabbits remain in normal numbers.

It has been drawn to our attention that our only population of pinnated grouse, on Manitoulin Island, has been spreading recently. This fact was given publicity in the Department's magazine "Sylva" with a view to aiding in protection, so that the colony of these birds on the island could be built up and perhaps used for propagation.

Fur-Bearing Animals

Nearly all fur-bearing animals vary in numbers according to the progress of natural cycles. A few, notably the beaver, remain constant excepting as their numbers are controlled by trapping. The most notable population change is a decrease of mink, which are becoming scarce. Muskrat are also showing signs of decline, although in many of our best areas the population is still high. Weasel and raccoon are reported to be decreasing locally and although skunks are still numerous they have fallen off to some extent. In some of these low-value furs, the volume of trade gives little indication of populations. Fox remains abundant. In a few areas there are stocks of fisher and marten, but both of these species, and the lynx as well, are so scarce that natural cycles fail to develop normally. The wolverine is practically extinct, a fact which may ultimately be regretted, as its fur possesses special properties which are making it valuable. As a predator the species was hardly more destructive than other

fur-bearers and its depredations on trap-lines were probably less serious than those of the wolf. Its near-extirmination is evidence against any great difficulty of capture.

Trap-line Management

A careful study is now being made of the possibility of improving the basis of trap-line management in Ontario.

Introduced Wildlife

The ring-necked pheasant was at a low ebb in southern Ontario in the spring of 1946 after a series of adverse seasons. A study of the wild hatch showed large and healthy broods, but the number of broods was extremely small. As the quality of the shoot is determined by the wild stock it was obviously predestined to be poor. Isolated colonies of Hungarian Partridge survive, after unfavourable seasons, over a wide area. They are reasonably numerous in the eastern tip of the Province. European hares are in normal numbers, and have practically stopped spreading.

Wildlife Propagation

Pheasants were raised under contract at the Department's farms at Normandale and Codrington. In addition, deficiencies in our supply of birds were made up by purchase from private breeders.

DISTRIBUTION OF PHEASANTS IN ONTARIO

For the fiscal year ending March 31, 1947

County	Township	Poults	Hens	Cocks	Total
Essex.....		1,080	280	128	1,488
Kent.....		1,000	200	36	1,236
Lambton.....	Plympton.....	195			195
	Sarnia.....	395			395
Elgin.....	S. Dorchester.....	195			195
	Bayham.....	210			210
	Malahide.....	195			195
	Dunwich.....	195			195
	Aldborough.....	195			195
Middlesex.....	Westminster.....	210			210
	Metcalfe.....	195			195
Norfolk.....	Woodhouse.....	210			210
	Middleton.....	200			200
	Townsend.....	210	38	2	250
	Windham.....	210			210
Oxford.....	East Oxford.....	195			195
	Dereham.....	210			210
Brant.....	Burford.....	195			195
	Dumfries South.....	195			195
	Onondaga.....	200			200
Wellington.....	Puslinch.....	195			195
Haldimand.....	Dunn.....	195		6	201
	Cayuga.....	210			210
	Canboro.....	210			210
	Walpole.....	210			210
	Oneida.....	195			195
	Rainham.....	205			205
	Seneca.....	420			420
	Cayuga South.....	195			195
	Moulton.....	195			195
	Sherbrooke.....	195			195
	Total.....	8,315	518	172	9,005

DISTRIBUTION OF PHEASANTS IN ONTARIO
For the fiscal year ending March 31, 1947

County	Township	Poult's	Hens	Cocks	Total
Welland.....	Carried Forward.....	8,315	518	172	9,005
	Wainfleet.....	210	.....	.....	210
	Humberstone.....	195	.....	.....	195
	Crowland.....	195	.....	.....	195
	Thorold.....	500	.....	.....	500
	Stamford.....	195	.....	.....	195
	Bertie.....	210	.....	.....	210
Lincoln.....	Willoughby.....	195	.....	.....	195
	Grimsby South.....	195	.....	.....	195
	Clinton.....	250	.....	.....	250
	Caistor.....	195	.....	.....	195
	Gainsborough.....	195	.....	.....	195
	Grantham.....	250	.....	.....	250
	Louth.....	200	.....	.....	200
Lincoln & Niagara....	Niagara.....	445	.....	.....	445
	From Niagara District				
Halton.....	Pheasant Breeders Ass'n..	1,200	.....	.....	1,200
	Trafalgar.....	400	.....	.....	400
	Nelson.....	200	128	20	348
	Esquesing.....	400	.....	.....	400
	Nassagaways.....	200	.....	.....	200
Wentworth.....	Ancaster.....	200	.....	.....	200
	Barton.....	200	.....	.....	200
	Saltfleet.....	445	.....	.....	445
	Flamboro West.....	200	.....	.....	200
	Flamboro East.....	200	.....	.....	200
	Beverly.....	200	.....	.....	200
	Binbrook.....	195	.....	.....	195
Peel.....	Glanford.....	195	.....	.....	195
	Toronto.....	200	132	20	352
	Chinguacousy.....	400	.....	.....	400
	Albion.....	200	.....	.....	200
	Caledon.....	200	.....	.....	200
York.....	Toronto Gore.....	200	.....	.....	200
	Scarborough.....	400	.....	.....	400
	Markham.....	400	.....	.....	400
	Whitchurch.....	200	.....	.....	200
	Vaughan.....	400	.....	.....	400
	King.....	400	.....	.....	400
	Gwillimbury North.....	200	.....	.....	200
Ontario.....	Gwillimbury East.....	90	.....	.....	90
	Pickering.....	400	161	11	572
	East Whitby.....	400	.....	.....	400
Prince Edward.....	West Whitby.....	200	.....	.....	200
	South Marysburg.....	600	.....	.....	600
Durham.....	Hope.....	.....	30	16	46
	Cavan.....	30	.....	.....	30
Northumberland.....	Brighton.....	.....	30	16	46
	Presqu'île Point.....	40	.....	.....	40
	South Monaghan.....	15	.....	.....	15
	Trenton.....	45	.....	.....	45
Frontenac.....	Wolfe Island.....	.....	24	12	36
Peterborough.....	Doune.....	25	.....	.....	25
Total.....		21,025	1,023	267	22 315

A complete review of the history of the Ring-necked Pheasant in Ontario made during the year revealed that, in areas where the snowfall totalled over 50 inches, pheasants were never established in shootable numbers unless there was some local condition related to agricultural practice which provides compensating food and shelter in winter. Where the snowfall is greater than 70 inches it is not worth while trying pheasants at all.

Open Seasons

In addition to the open seasons established by statute, the following open seasons were established by Order-in-Council under appropriate sections of the Game and Fisheries Act, 1946.

Ruffed Grouse, Spruce Grouse, Sharp-tailed Grouse and Ptarmigan—An open season was established from October 5th to October 14th, 1946, both dates inclusive, in all parts of Ontario excepting the counties of Essex, Kent, Lambton, Middlesex, Elgin, Perth, Oxford, Norfolk, Waterloo, Brant, Haldimand, Wentworth, Lincoln, Welland, Peel, Halton and York, and the townships of Pickering, Whitby and Whitby East in Ontario County. The bag limit was set at five birds per day and twenty for the whole season.

Pheasants—The open season for pheasants permitted ring-necked pheasants to be hunted or killed with guns other than guns using ammunition containing only one bullet between the hours of 8 a.m. and 5 p.m.,—

- (a) On October 23rd, 26th and 28th, 1946, in the townships of,—Caistor, Clinton, Gainsboro, Grantham, Grimsby North, Grimsby South, Louth and Niagara in the County of Lincoln; Bertie, Crowland, Humberstone, Pelham, Stamford, Thorold, Wainfleet and Willoughby in the County of Welland; and Ancaster, Barton, Beverley, Binbrook, Flamboro East, Flamboro West, Glanford and Saltfleet in the County of Wentworth;
- (b) On October 25th and 26th, 1946, in the townships of,—Marysburgh South in the County of Prince Edward; Pickering, Whitby and Whitby East in the County of Ontario; Gwillimbury North, King, Markham, Scarborough, Vaughan and Whitchurch in the County of York; Albion, Caledon, Chinguacousy, and in that portion of the Township of Toronto lying North of the Queen Elizabeth Highway, in the County of Peel; Esquesing, Nassagaweya, Nelson and Trafalgar in the County of Halton; Puslinch in the County of Wellington; Burford, Dumfries South and Onandaga in the County of Brant; Dereham and Oxford East in the County of Oxford; Aldborough, Bayham, Dorchester South, Dunwich and Malahide in the County of Elgin; and Westminster in the County of Middlesex (part);
- (c) On October 24th in Lambton county, except the Township of Plympton;
- (d) On October 31st and November 1st in Pelee Island, Essex County.

The bag limit was set at three cock pheasants per day except in Pelee Island where it was set at four cock pheasants per day.

Black and Gray Squirrels—An open season was established on November 15th and 16th, 1946, with a bag limit of five squirrels per day.

Deer—In addition to the deer season provided by statute open seasons were established whereby deer were hunted, killed or destroyed,—

- (a) On November 11th to November 26th, 1946, in Carleton County west of the Rideau River;
- (b) On November 18th to 23rd, both inclusive, in the Counties of Bruce and Grey; and in the Townships of Williamsburgh and Mountain, in the County of Dundas;
- (c) On November 27th to 30th, both inclusive, in the year 1946 in the Townships of Howard and Orford in the County of Kent; Blandford, Blenheim and Nissouri East, in the County of Oxford; Erin and Minto in the County of Wellington; and Esquesing and Nassagaweya in the County of Halton; Puslinch in the County of Wellington.

Rifles were permitted in Bruce and Grey Counties, and in the Township of Mountain in the County of Dundas. In all the other areas listed only shotguns with S.S.G. or buckshot loads, and bow and arrow, were permitted.

A special licence was used in isolated townships.

Beaver—An open season for beaver was established from December 1st to December 21st, both inclusive, in all of Ontario north and west of the French and Mattawa Rivers excepting the district of Rainy River and that portion of Kenora District south of the main line of the C.N.R. and west of the C.N.R. line running from Fort William to Superior Junction. South of the French and Mattawa Rivers, the same season was established in the districts of Parry Sound and Nipissing, the county of Lanark, and the townships of Artemisia, Bentinck, Euphrasia, Glenelg, Holland, Normanby, Proton and Sullivan in the County of Grey.

The bag limit was set at ten beaver per trapper.

Muskrat—Provision was made whereby (including extensions) muskrats were hunted, taken or killed, and the carcass, pelt or any part thereof possessed,—

- (a) On March 6th to April 12th, both inclusive, in the year 1947 in the Counties of Brant, Elgin, Essex, Haldimand, Kent, Lincoln, Norfolk, Oxford, Welland and Wentworth; and those parts of the Counties of Halton, Lambton, Middlesex, Peel, Perth, Waterloo and Wellington lying south of Highway No. 7;
- (b) On March 20th to April 26th, both inclusive, in the year 1947 in the Counties of Bruce, Carleton, Dufferin, Dundas, Durham, Glengarry, Grenville, Grey, Huron, Leeds, Northumberland, Ontario, Peterborough, Prescott, Prince Edward, Russell, Simcoe, Stormont, Victoria and York; and those parts of the Counties of Lambton, Halton, Middlesex, Peel, Perth, Waterloo and Wellington lying north of Highway No. 7; and those parts of the counties of Frontenac, Hastings and Lennox and Addington lying south of Highway No. 7; and that part of the County of Lanark lying south of Highway No. 7 and east of Highways No. 15 and No. 29;
- (c) On March 20th to May 5th, both inclusive, in the year 1947, in the County of Renfrew, the Provisional County of Haliburton and the Districts of Muskoka and Parry Sound; and that part of the District of Nipissing lying south of the Township of Widdifield and the Mattawa River; and those parts of the Counties of Frontenac, Hastings and Lennox and Addington lying north of Highway No. 7; and that part of the County of Lanark lying north of Highway No. 7 and west of Highways No. 15 and No. 29;
- (d) On April 1st to May 21st, both inclusive, in the year 1947, in the Districts of Algoma, Rainy River and Sudbury; and that part of the District of Nipissing lying north of the south boundary of the Township of Widdifield and the Mattawa River;
- (e) On April 1st to May 31st, both inclusive, in the year 1947, in the Districts of Cochrane, Kenora, Patricia, Timiskaming and Thunder Bay.

Migratory Birds—A summary of the Federal Regulations for 1946 as they applied to Ontario follows:—

Open Seasons (both dates inclusive) Woodcock, October 1 to October 31st.

Ducks (other than Eiders),
Geese (other than Brant), Rails, Coots, Gallinules.

Northern District (defined below): September 16th to November 29th.

Throughout the remainder of the Province: September 25 to December 9, except that in the Counties of Essex, Kent and Elgin the open season for geese (other than Brant) shall be from November 1 to January 10.

The Northern District of Ontario is defined as that part of the Province lying north and west of a line described as follows: Commencing at the southwest angle of Bruce County; thence in a general easterly direction along the southerly boundaries of Bruce and Grey Counties to the southwest angle of Nottawasaga Township in the County of Simcoe, along the south boundaries of Nottawasaga, Sunnidale and Vespra Townships to the line of mean high water of Lake Simcoe, along the said line of mean high water on the south side of Lake Simcoe to the northwest angle of Brock Township in the County of Ontario, and along the north boundary of Brock Township to the centre of King's Highway No. 12; thence southerly along the centre line of the said Highway to the centre line of the right-of-way of the Canadian Pacific Railway in the vicinity of Myrtle; thence in a general easterly direction along the said centre line to the city of Peterborough, along the centre line of King's Highway No. 7 to the west boundary of Lanark County, along the west and south boundaries of Lanark County to the line of mean high water on the north side of Rideau Lake, and along the line of mean high water on the north side of Rideau Lake and Rideau River to a point opposite the northeast angle of Grenville County; thence southerly along the east boundary of Grenville County to the northwest angle of Dundas County; thence easterly along the northerly boundaries of Dundas, Stormont and Gengarry Counties to the interprovincial boundary.

Eider Ducks—North of the Quebec-Cochrane-Winnipeg line of the C.N.R.: September 16 to November 15. *Close Seasons*—There is a close season throughout the year on Brant, Swans, Cranes, Wilson's Snipe, all other shore birds except Woodcock, and all migratory non-game and insectivorous birds.

The possession of migratory game birds killed during the open season is allowed in Ontario until March 31 following the open season.

Bag Limits—In any day: Ducks (exclusive of Mergansers), 12, of which not more than 1 may be a Wood Duck; Geese (other than Brant), 5; Rails, Coots and Gallinules, 25; Woodcock, 8. In any open season: Ducks (exclusive of Mergansers) 150; Geese (other than Brant), 25; Woodcock, 100.

Guns, Appliances and Hunting Methods

Forbidden—The use of any automatic (auto-loading) gun with a magazine that has not been permanently plugged or altered so that it cannot carry more than two cartridges, or rifle, or swivel or machine gun, or battery, or any gun larger than number 10 gauge, or any weapon other than a gun or a bow and arrow; and the use of live birds as decoys, or of any aeroplane, power-boat, sail-boat, or night-light, and shooting from any motor or wheeled vehicle or a vehicle to which a draught animal is attached. The hunting of migratory game birds by the use or aid of baiting with grain or other artificial food is prohibited.

Persons using blinds or decoys for hunting migratory game birds are urged to consult the Regulations for details of the restrictions upon this method of hunting.

For special restrictions about hunting on waters of Rondeau Bay, see Regulations.

The shooting of migratory game birds earlier than one-half hour before sunrise or later than one-half hour after sunset is prohibited.

The penalty for violation of the migratory bird laws is a fine of not more than three hundred dollars and not less than ten dollars, or imprisonment for a term not exceeding six months, or both fine and imprisonment.

Wildlife Surveys—

A study of various census methods with respect to the ring-necked pheasant, *carried out by the Research Division* in southern Ontario. This was extended by the Fish and Wildlife Division to include a study of the history of the pheasant in Ontario in relation to various factors affecting its survival, done by Head Office staff, and a field check of the birds through the pre-hunting season, done by one of the officers who had taken part in pheasant distribution during the summer. The results have already been mentioned. A study of cormorant colonies on Georgian Bay was also carried out. A special pre-season and hunting season check of pheasant numbers was also made on Pelee Island in order to arrive at a formula for estimating the pheasant population there.

Wildlife Harvest—

As a means of checking the success attending hunting in Ontario, a card for recording hunting effort and bag, known as the "Game Bag Census Card" was printed and distributed to hunters.

In addition to these cards we had checks of deer hunters on the highway and various reports of game shipped and exported.

During the hunting season of 1946 the Canadian Pacific Express Company reported handling over its lines in Ontario 689 deer, 41 moose and 41 bear.

Through the ports of Rainy River, Fort Frances and Rainier the following were exported: moose, 200; deer, 3002; caribou, 2; bear, 141; geese, 8; ducks, 2,493. Some of this game was taken outside Ontario, e.g. the caribou.

A check by overseers at the port of Windsor on November 16 (squirrel season) and November 23 showed the following exports of game:

	November 16	November 23
Total cars.....	198	199
Total hunters.....	533	569
European hares.....	575	588
Cottontail rabbits.....	616	576
Squirrels.....	494	...
Deer.....	11	6
Ducks.....	119	143
Bears.....	1	...
Raccoons.....	13	...

At the port of Windsor, the Essex County Sportsmen's Association also checked on four Saturdays in the fall for five hours each, and counted 3,002 hunters and 7,171 rabbits.

It is generally felt that the border area is over-hunted because of its proximity to population centres in the United States and, for that reason, there is strong local objection to non-resident hunters. This is directed impartially against the entire non-resident group.

The Gravenhurst road check showed the following for the period November 7th to November 21st. It is compared with a check from November 6th to November 19th, 1941.

	1946	1941
Hunters.....	7,389	4,264
Moose.....	2	5
Deer.....	3,280	3,001
Bear.....	62	48
Wolves.....	3	1

At Pelee Island, a complete count was made of the pheasants killed during the open season, and by means of certain additional counts, the following figures were ascertained concerning pheasants on Pelee Island:

Number of hens before open season.....	5,160
Number of cocks before open season.....	5,263
Number of cocks killed.....	4,615
Number of hens (illegally) killed.....	300
Number of hens after the open season.....	4,860
Number of cocks after the open season.....	648

All of these figures except the actual kill should be rounded off, but it may be taken that there were at least 10,000 birds on the island before the shoot, and at least 4,000 hens and 600 cocks left after the shoot.

The Game Bag Census Cards indicated that, by those reporting in 1946, there were 0.7 deer killed per hunter, and the number of deer killed per hunter-day was 0.09. The area covered was much larger than that funnelled through the road block and included portions where deer were very abundant.

Only 8% of the hunters reporting were hunting ducks, and some of these may have hunted only incidentally. Only 5% as much time was spent on duck-hunting as on deer hunting, by hunters reporting.

Wildlife Library

A start was made on the assembling of a library on wildlife management. Contributions and exchanges will be welcomed.

Wildlife Research

Close co-operation was maintained with wildlife research parties from the Research Division.

Technical Personnel

At present there is a serious lack in Ontario of men trained in wildlife management. A few service men have shown an interest in the subject and are taking up studies at universities which will give them basic knowledge, but they will not be available for employment for several years, during which time essential work is certain to be delayed.

REVENUE RECEIVED FROM EXPORT PERMITS
April 1, 1946 to March 31, 1947

Species	Total Amount of Pelts	Total Amount of Revenue
Bear.....	90	\$ 45.00
Beaver.....	45,847	91,694.00
Fisher.....	1,667	2,620.50
Fox (Cross).....	2,771	4,156.50
Fox (Red).....	24,429	12,214.50
Fox (Silver or Black).....	496	848.50
Fox (White).....	148	222.00
Fox (Not specified).....	.....	.....
Lynx.....	766	1,149.00
Marten.....	1,919	1,919.00
Mink.....	36,541	18,270.50
Muskrat.....	441,478	44,147.80
Otter.....	5,158	5,158.00
Raccoon.....	15,922	1,592.20
Skunk.....	36,644	1,832.20
Weasel.....	53,778	2,688.90
Wolverine.....	4	1.80
Total Revenue.....	.....	\$188,560.40

REVENUE RECEIVED FROM TANNERS PERMITS
April 1, 1946 to March 31, 1947

Species	Total Amount of Pelts	Total Amount of Revenue
Bear.....	280	\$ 140.00
Beaver.....	61	122.00
Fisher.....	50	80.50
Fox (Cross).....	99	148.50
Fox (Red).....	3,669	1,834.50
Fox (Silver or Black).....	62	116.50
Fox (White).....	.....	.....
Fox (Not specified).....	.....	.....
Lynx.....	11	16.50
Marten.....	19	19.00
Mink.....	1,120	560.00
Muskrat.....	198,391	19,807.15
Otter.....	24	24.00
Raccoon.....	2,453	245.30
Skunk.....	1,393	69.65
Weasel.....	914	45.70
Wolverine.....	.....	.....
Total Revenue.....	.....	\$23,229.30

SUMMARY

Species	Pelts Exported	Pelts Tanned	Total Pelts
Bear.....	90	280	370
Beaver.....	45,847	61	45,908
Fisher.....	1,667	50	1,717
Fox (Cross).....	2,771	99	2,870
Fox (Red).....	24,429	3,669	28,098
Fox (Silver or Black).....	496	62	558
Fox (White).....	148	.....	148
Fox (Not specified).....	.....	.....	.....
Lynx.....	766	11	777
Marten.....	1,919	19	1,938
Mink.....	36,541	1,120	37,661
Muskrat.....	441,478	198,391	639,869
Otter.....	5,158	24	5,182
Raccoon.....	15,922	2,453	18,375
Skunk.....	36,644	1,393	38,037
Weasel.....	53,778	914	54,692
Wolverine.....	4	.....	4

Revenue received from Export Permits.....	\$188,560.40
Revenue received from Tanners Permits.....	23,229.30
Total Revenue.....	\$211,789.70

TOTAL VALUE OF PELTS EXPORTED OR TANNED
During the year ending March 31, 1947

Species	Pelts Exported	Pelts Tanned	Total Pelts	Value of Pelts
Bear.....	90	280	370	\$ 814.00
Beaver.....	45,847	61	45,908	1,273,947.00
Fisher.....	1,667	50	1,717	59,803.11
Fox (Cross).....	2,771	99	2,870	22,242.50
Fox (Red).....	24,429	3,669	28,098	84,294.00
Fox (Silver or Black).....	496	62	558	9,452.52
Fox (White).....	148	.....	148	2,396.12
Fox (Not specified).....	.....	.....	.....	.....
Lynx.....	766	11	777	17,904.00
Marten.....	1,919	19	1,938	45,988.74
Mink.....	36,541	1,120	37,661	915,538.91
Muskrat.....	441,478	198,391	639,869	2,271,534.95
Otter.....	5,158	24	5,182	125,663.50
Raccoon.....	15,922	2,453	18,375	39,690.00
Skunk.....	36,644	1,393	38,037	30,429.60
Weasel.....	53,778	914	54,692	67,271.16
Wolverine.....	4	.....	4	49.32
Total.....	667,658	208,546	876,204	\$4,966,209.43

STATEMENT OF RANCH RAISED PELTS EXPORTED OR TANNED
For the year ending March 31, 1947

Species	Exported	Tanned	Total Pelts	Value of Pelts
Fox (Cross).....	56	8	64	\$ 496.00
Fox (Silver or Black).....	23,058	3,294	26,352	446,402.88
Fox (Blue).....	1,244	.....	1,244	22,640.80
Mink.....	70,982	2,788	73,770	1,793,348.70
	95,340	6,090	101,430	\$2,262,888.38

Fur Farming

The decided slump in the raw fur market during 1946 was responsible for mink ranchers receiving up to 25% less for their furs than they received last year. The demand for long hair furs, principally fox, declined to such an extent that auction houses reported only 10 to 20% clearances and in some cases, the prices offered were so low that the entire offering of fox was withdrawn. Many fox ranchers realized prices equal only to production costs.

This condition, together with the rising costs of feed, building materials and labour has harassed the fur farmer, and caution in the purchase of breeding stock and production is the keynote for the coming year.

During the calendar year 1946, 1,502 Fur Farmers' licences were issued, 1,187 being renewals of previous licences and 315 for newly established fur farms.

Mink and fox continued to be the principal species propagated on ranches and Departmental records show that during the fiscal year 1946-47 fur farmers disposed of their production of these species in the following manner:—

Species	Tanned	Exported	Total
Mink	2,788	70,982	73,770
Silver Fox	3,294	23,058	26,352

The following table shows the location by County and Districts of licensed fur farms in Ontario:—

County or District	Number	County or District	Number
Algoma	21	Middlesex	51
Brant	9	Nipissing	8
Bruce	58	Norfolk	12
Carleton	30	Northumberland	7
Cochrane	14	Ontario	40
Dufferin	7	Oxford	26
Dundas . . . . .	..	Parry Sound	19
Durham	8	Peel	33
Elgin	18	Perth	52
Essex	16	Peterboro	9
Frontenac	20	Prescott	11
Glengarry	5	Prince Edward	6
Grenville	6	Rainy River	28
Grey	85	Renfrew	52
Haldimand	16	Russell	2
Haliburton	1	Simcoe	89
Halton	24	Stormont	3
Hastings	9	Sudbury	12
Huron	56	Timiskaming	12
Kenora	26	Thunder Bay	102
Kent	22	Victoria	15
Lambton	20	Waterloo	40
Lanark	79	Welland	10
Leeds	13	Wellington	35
Lennox and Addington	1	Wentworth	56
Lincoln	15	York	164
Manitoulin	18		
Muskoka	11	Total	1,502

Wolf Bounty

At the 1946 session of the Ontario Legislature, The Wolf Bounty Act and The Wolf Bounty Amendment Act, 1941, were repealed, and The Wolf and Bear Bounty Act, 1946 was enacted.

This Act authorized the payment of \$25.00 as bounty on a timber or brush wolf three months of age or over and \$5.00 as bounty on a timber or brush wolf under the age of three months.

It will be noted from the following comparative table that more wolves were taken during this last fiscal year than in any year shown, and it is interesting to note the marked increase in the number of brush wolves taken. The total number of wolves taken is unusually large and may indicate that the natural peak in population has been reached, and will probably recede during the next few years.

Period	Timber	Brush	Pups	Total	Bounty and Expenses
For year ending March 31, 1943.....	935	497	32	1,464	\$33,606.62
For year ending March 31, 1944.....	1,302	731	32	2,065	46,545.75
For year ending March 31, 1945.....	1,321	665	12	1,998	45,993.58
For year ending March 31, 1946.....	1,266	777	30	2,073	44,999.87
For year ending March 31, 1947.....	1,440	1,182	42	2,664	59,275.18

The following is a summary of the number of wolves taken in each of the Counties and Districts, on which bounty was claimed during the fiscal year ending March 31, 1947:—

COUNTIES

County	Timber	Brush	Pups
Brant.....	..	..	..
Bruce.....	4	31	..
Carleton.....	2	12	..
Durham.....	..	6	..
Elgin.....	1	8	..
Essex.....	..	4	..
Frontenac.....	5	13	..
Grenville.....	1	9	..
Grey.....	..	1	..
Haldimand.....	..	1	..
Hastings.....	8	55	..
Huron.....	1	2	..
Kent.....	..	4	13
Lambton.....	..	1	..
Lanark.....	7	43	..
Leeds.....	..	10	..
Lennox and Addington.....	1	7	..
Middlesex.....	1	1	..
Norfolk.....	..	5	..
Northumberland.....	..	4	..
Ontario.....	2	28	..
Perth.....	..	1	..
Peterborough.....	4	12	..
Renfrew.....	32	29	..
Simcoe.....	..	28	8
Victoria.....	1	35	..
Welland.....	..	1	5
Wellington.....	..	..	..
York.....	..	15	..
Total.....	70	366	26

DISTRICTS

District	Timber	Brush	Pups
Algoma	55	99	..
Cochrane	26	4	..
Haliburton	14	2	..
Kenora	414	129	..
Manitoulin	27	141	..
Muskoka	5	26	..
Nipissing	108	27	..
Parry Sound	51	54	..
Patricia	104	11	..
Rainy River	207	100	7
Sudbury	96	93	..
Timiskaming	24	11	..
Thunder Bay	239	119	9
Total	1,370	816	16

A total of 1,812 applications for bounty on 2,622 wolves and 42 pups were submitted. However, bounty was allowed on 2,609 wolves and 38 pups with 13 applications concerning 13 wolves and 4 pups being refused for various reasons.

Bear Bounty

The Order-in-Council dated August 19th, 1942, which authorized the payment of Bear Bounty was superceded by the enactment of The Wolf and Bear Bounty Act, 1946.

The conditions on which bounty is paid under this Act however, are essentially the same. A \$10.00 bounty is paid on any bear 12 months of age or over and \$5.00 on any bear under 12 months of age, which has been killed between April 15th and November 30th in Townships located in certain Counties and Districts and of which 25% of the total area is devoted to agriculture. The Act further specifies that the bear must be killed in defence or preservation of live stock or property, by a bona fide resident of the Township.

The following table indicates the number of bears and cubs killed in each of the Counties and Districts on which applications for bounty have been received during the fiscal year ending March 31, 1947. Some 816 applications on 959 bears and 73 cubs were submitted. Of these, bounty was paid on 937 bears and 73 cubs and 13 claims concerning 22 bear were refused.

County or District	Bear (12 months or over)	Cubs (under 12 months)
Algoma.....	40	1
Brant.....	..	..
Bruce.....	12	..
Carleton.....	..	..
Cochrane.....	101	7
Dufferin.....	..	..
Dundas.....	..	..
Durham.....	..	..
Elgin.....	..	..
Essex.....	..	..
Frontenac.....	7	1
Glengarry.....	..	..
Grenville.....	..	..
Grey.....	..	..
Haldimand.....	..	..
Haliburton.....	30	6
Halton.....	..	..
Hastings.....	51	7
Huron.....	..	..
Kenora.....	34	..
Kent.....	..	..
Lambton.....	..	..
Lanark.....	..	..
Leeds.....	..	..
Lennox and Addington.....	12	1
Lincoln.....	..	..
Manitoulin.....	5	..
Middlesex.....	..	..
Muskoka.....	13	..
Nipissing.....	48	..
Northumberland.....	..	..
Ontario.....	..	..
Oxford.....	..	..
Norfolk.....	..	..
Parry Sound.....	81	2
Patricia.....	..	..
Peel.....	..	..
Perth.....	..	..
Peterboro.....	5	..
Prescott.....	..	..
Prince Edward.....	..	..
Rainy River.....	101	12
Renfrew.....	47	4
Russell.....	..	..
Simcoe.....	..	..
Stormont.....	..	..
Sudbury.....	84	..
Timiskaming.....	165	17
Thunder Bay.....	121	14
Victoria.....	2	..
Waterloo.....	..	..
Welland.....	..	..
Wellington.....	..	..
Wentworth.....	..	..
York.....	..	..
Total.....	959	73

GAME FISH

During the fiscal year ending March 31, 1947, twenty-seven Hatcheries and Rearing Stations were operated successfully. No new plants or additions were established during the course of the year.

For the culture of game fish, the development of rearing stations or a combination of hatcheries and rearing stations instead of a hatchery only, is in keeping with the progressive developments in this field. A hatchery may be defined as a building in which is housed all the necessary equipment for hatching and rearing of fish to the fry or advanced fingerling stages. A rearing station is an extension of this arrangement, that is, large tanks, raceways or ponds being provided for accommodating fish from the fingerling to yearling or adult stages.

Of the twenty-seven stations, eleven are provided with hatcheries only, three with a combination of hatcheries and ponds, eight with a combination of hatcheries, raceways and ponds. Speckled trout are cultured at fourteen stations, rainbow trout at two, brown trout at six, Kamloops trout at one, lake trout at ten, largemouth bass at one, smallmouth bass at seven, maskinonge at one, perch at one, yellow pickerel at eleven, whitefish at nine, herring at two and minnows at one.

There are facilities at three rearing stations for retaining a selective stock of adult speckled trout for breeding purposes. These are maintained at Dorion, Sault Ste. Marie and Hills Lake Hatcheries. A breeding stock of brown, rainbow and Kamloops trout are provided for at one other station, namely, Normandale.

Practically all the speckled trout, brown trout and Kamloops trout distributed to suitable and publicly fished waters are yearlings or older fish. Black bass, maskinonge, rainbow trout and lake trout are, generally speaking, distributed in the fry or fingerling stages. The raising of lake trout to the yearling stage has been developed successfully at certain stations and when additional pond space is available, expansion of the culture of lake trout in this direction may be undertaken. Whitefish, herring, perch, yellow pickerel and blue pickerel are all distributed in the fry stage.

THE CULTURE AND DISTRIBUTION OF FISH

Fish culture may be defined as any procedure for increasing the stock of fish. One of the procedures used extensively in Ontario is the planting of hatchery raised fish. In the majority of cases, this procedure is a supplement and not a substitute for nature's means of replenishment.

A detailed account of the fish distribution from our twenty-seven stations by county or district, species, age class and numbers planted is given in appendices one to five inclusive. In the following paragraphs, comparison of the year's distribution with that of the previous year, and other pertinent data are given. The total output of all species for the year was practically the same as in 1945.

Speckled Trout

As in previous years, the objective was the distribution of 3,000,000 speckled trout yearlings, but the figures were somewhat lower, namely, 2,760,780. Due to congestion at two or three of our stations it was necessary to plant about 85,000 fingerlings. As our stock of breeders was quite good, we were able to

make a distribution of double that of the previous year. The plantings of this species by age group is as follows:

50,000 fry
84,730 fingerlings
2,760,780 yearlings
8,656 adults

Brown Trout

The plantings of brown trout yearlings were good, with a total of 268,940 being distributed. This was an increase of 20% over the previous year's distribution. In addition, we had a surplus of fingerlings which we could not hold for another year, and these made a distribution of 133,025. Taken together, the figures for this distribution were excellent, considering the number of ponds which we have available for the raising of brown trout.

Rainbow Trout

(a) *Steelhead*. It is only in the larger rivers and lakes that rainbow trout are normally found except in their immature stage. A river such as the Nottawasaga is a good example in which rainbows remain throughout the year. They survive chiefly in the larger lakes such as Lake Simcoe and the Great Lakes. Distribution this year was mainly confined to the larger rivers flowing into the Georgian Bay.

(b) *Kamloops*. This species was introduced to a number of carefully selected lakes in Ontario, and the Kamloops in these lakes are showing excellent results during the last few years. Up to now, the practice has been to distribute this species in the yearling stage, but this year there was a distribution of 4,850 as adults, which was an excellent contribution to the culture of this species in Ontario.

Lake Trout

For the last several years there has been a decline in the production in the spawn collection of this species. Steps are now being taken by the Department to ascertain the fact responsible for the decline, with a view to providing a remedy. The distribution in 1946 shows a sharp drop over that recorded in 1945. As stated above, this is wholly due to the fact that our hatcheries are not getting the spawn in such large numbers as previously. The distribution of 28,045 yearlings was a considerable decline over the previous year as the hatcheries were not able to retain as many fingerlings from the previous year as had been done formerly.

Whitefish

The spawn collection of this species was considerably down from the previous year. This gives the reason for the slight decline in the plantings, as shown in the tables.

Herring

In comparison with the last few years, the distribution of herring was really excellent. There was a total planting of 69,674,000. This large increase was wholly due to a very good run of herring in the spawning season, together with a week of good weather, when our spawn takers can work at their best.

Yellow Pickerel

There was a planting of 142,385,000 fry this year which was a decline of about 20% from the previous year. The drop in the distribution was accounted for solely from the fact that the fish could not be captured in large enough quantities during the spawning season. The chief spawn taking areas where

decrease in spawn occurred were Hay Bay in the Bay of Quinte, Echo Lake in Algoma, Whitefish Falls in the North Channel. All our other spawning grounds were as good or even better than in previous years

Small-mouth Bass

The number of bass fry planted was approximately 14% less than planted in the previous year. The production of fingerlings was also down, but only 10% from last year.

Large-mouth Bass

There was an increase of 90% in the output of this species over last year. This was very gratifying as there is only one small pond available for this work at our Mount Pleasant Hatchery. Instead of planting some of these fish as fry we were able to hold over our stock until they were good sized fingerlings.

Perch

The take of perch spawn in Lake Erie is subject to wide variation. This spawn is collected mainly from the region off Kingsville. This year we had a good spawn collection and we were able to make a 70% increase in our fry distribution. The total fry planted was 20,450,000.

Maskinonge

The plantings of this species were as follows:

1,150,000 fry

6,875 fingerlings

There was a drop of 43% in the number of fry produced, but this was more than offset by the record production of fingerlings. The fingerling production was an all time record from our Deer Lake Hatchery. There is reason to believe that these figures will be sustained, or even increased, as greater facilities are being given the hatchery.

Atlantic Salmon

There was a distribution this year of more than double that made in the previous year. All the fish planted were fingerlings of good size. A more detailed report on Atlantic Salmon will be found under the heading "Biological Surveys".

CLOSED WATERS

In addition to the waters already closed for the natural production and propagation of fish, the following were closed during the period April 1, 1946 to March 31, 1947.

Adam Lake, located in unorganized territory, north of Clay Lake and between Fluke Lake and Segise Lake, District of Kenora.

The Bog, Newboro Lake, located in township of South Crosby, County of Leeds.

Deep Bay, Sparrow Lake, township of Matchedash, County of Simcoe.

Harvey or Nogies Creek (Part), located on lot 10, Con. 2, Township of Galway, and lot 28, Con. 17, township of Harvey, County of Peterboro.

Long Lake, located in the township of Lansdowne, County of Leeds.

Landons Bay, located on the St. Lawrence River, township of Lansdowne, County of Leeds.

Maskinonge Creek flowing from Maskinonge Lake to Little Vermillion Lake; Maskinonge Lake (Part); Little Vermillion Lake (Part) located in the township of Pickerel, District of Kenora.

Moose Lake located in unorganized territory west of the Township of Smellie, District of Kenora.

BIOLOGICAL SURVEYS

The Game Fish Section expanded their work, especially in respect of biological surveys. Surveys were conducted on a great many lakes and streams to obtain data basic to the fish management plan. This included four lakes in Frontenac County, one in each of Lennox and Addington and Hastings Counties, three in Nipissing District, five in Parry Sound District and several minor waters.

A project was undertaken to assess the value of planting streams in Bruce County with hatchery raised speckled trout. The trout were planted as yearlings in parts of the Sydenham River, Eugenia Hydro Pond and Williams Lake, and were marked by removal of the adipose fin. A careful check on all of the fish taken from these waters is being obtained by means of the creel census. The experiment is being continued.

An experiment begun in 1945, was continued at Round Lake, Renfrew County, to determine the effect of removal of coarse fish in quantity, from a lake. The lake was heavily fished by means of trap and hoop nets, the coarse fish removed and the game fish returned to the lake. This experiment is continuing.

Creel census surveys and assessment of waters was continued in Sibley Provincial Park.

Preliminary investigations were begun to obtain information concerning the life history and possible means of control of the Sea Lamprey. Deterioration of the lake trout fishery of the Great Lakes, particularly in Lake Huron and Georgian Bay, is attributed to the abundance of this fish parasite. This most important work was begun in the waters of Lake Huron adjacent to Bruce County, and is continuing.

An extensive survey of lakes in which Kamloops Trout have been introduced was undertaken. These waters included Lake Bernard and Poole Lake, Parry Sound District, Echo Lake, Rill Lake, Clear Lake, Red Chalk Lake, Lake Waseosa, Round Lake and Deep Lake, Muskoka District and Lake Timagami, Nipissing District. Assessment of fishing for this excellent game fish was made. With the exception of Lake Timagami, the Kamloops trout appears to have become well established in all of the lakes noted and is providing fair to good fishing.

The Atlantic Salmon experiment, which was begun in 1944 in Duffin's Creek, Ontario County, was continued. The experiment is being conducted for two reasons. First, an effort is being made to establish the Atlantic Salmon in Lake Ontario and its tributary streams, where it was formerly abundant, and second, an effort is being made to secure an appraisal of the efficiency of restocking streams with hatchery raised fish. As this is a long term investigation, it is too early to draw conclusions, though it may be stated that some of the fish that were planted in 1944 have been recaptured, and are showing satisfactory growth. Generally speaking, the results are encouraging.

Coarse fish removal was undertaken and results shown as follows:

Removal of Burbot (Ling) from Bobs Lake in 1947.

Location, Frontenac and Leeds County, township of North Crosby.

	Area.....	12 sq. miles
	Nets.....	Hoop Type
	Number of Nets.....	7
Dec. 30.....	311 fish.....	6 nets
Jan. 1.....	271 ".....	6 "
" 3.....	256 ".....	6 "
" 5.....	260 ".....	6 "
" 7.....	217 ".....	6 "
" 9.....	184 ".....	6 "
" 11.....	183 ".....	6 "
" 13.....	198 ".....	6 "
" 15.....	169 ".....	6 "
" 17.....	143 ".....	6 "
" 19.....	109 ".....	6 "
" 22.....	50 ".....	6 "
" 26.....	24 ".....	6 "
" 28.....	24 ".....	6 "
" 30.....	19 ".....	6 "
" 31.....	33 ".....	7 "
Jan. 16.....	40 ".....	1 "
" 18.....	46 ".....	1 "
" 25.....	10 ".....	1 "
" 27.....	33 ".....	1 "
20 days	2,589 fish	Total of 101 lifts

Removal of Burbot (Ling) from Long Lake in 1947.

Location—Frontenac and Leeds County, townships of Olden and Hinchinbrooke.

	Area.....	2 sq. miles
	Nets.....	Hoop Type
	Number of Nets.....	1
Jan. 2.....	38 fish.....	1 net
" 4.....	26 ".....	1 "
" 9.....	21 ".....	1 "
" 15.....	14 ".....	1 "
" 20.....	6 ".....	1 "
" 24.....	2 ".....	1 "
6 days	107 fish	6 lifts

Removal of Burbot (Ling) from Elbow Lake in 1947.

Location—Frontenac County, township of Hinchinbrooke.

	Area.....	½ sq. mile
	Nets.....	Hoop Type
	Number of Nets.....	1
Jan. 2.....	43 fish.....	1 net
" 4.....	64 ".....	1 "
" 9.....	27 ".....	1 "
" 15.....	9 ".....	1 "
" 20.....	8 ".....	1 "
" 24.....	2 ".....	1 "
6 days	153 fish	6 lifts

Removal of Burbot (Ling) from Clear Lake in 1947.

Location—Parry Sound District, township of Perry.

Nets.....		Hoop Type
Number of Nets.....		2
Jan. 16.....	3 fish.....	2 nets
“ 19.....	6 “.....	2 “
“ 25.....	8 “.....	2 “
“ 30.....	9 “.....	2 “
Feb. 2.....	3 “.....	2 “
5 days	29 fish	5 lifts

APPENDIX No. 1

SUMMARY OF FISH DISTRIBUTION For fiscal year April 1, 1946 to March 31, 1947

Whitefish.....	205,590,000
Herring.....	69,674,000
Lake Trout.....	5,902,240
Pickarel.....	142,385,000
Perch.....	20,450,000
Maskinonge.....	1,156,875
Atlantic Salmon.....	88,210
Brown Trout.....	401,965
Kamloops Trout.....	4,850
Rainbow Trout.....	1,610
Speckled Trout.....	2,904,166
Small-mouth Bass.....	702,128
Large-mouth Bass.....	9,527
Total.....	449,270,571

APPENDIX No. 2

DISTRIBUTION OF FISH BY SPECIES AND HATCHERIES April 1, 1946 to March 31, 1947

BROWN TROUT

Hatchery	Fingerlings	Yearlings
Chatsworth.....	.....	34,790
Codrington.....	.....	1,000
Glenora.....	133,025	.....
Ingersoll.....	.....	71,000
Mount Pleasant.....	.....	24,800
Normandale.....	.....	137,350
Totals.....	133,025	268,940

RAINBOW TROUT

Hatchery	Yearlings
Normandale.....	1,610

KAMLOOPS TROUT

Hatchery	Adults
Chatsworth.....	4,850

LAKE TROUT

Hatchery	Fry	Fingerlings	Yearlings
Chatsworth.....	12,775
Dorion.....	6,135
Fort Frances.....	6,400	.....
Glenora.....	169,795	.....
Hills Lake.....	5,000	9,135
Kenora.....	85,500	.....
Port Arthur.....	1,855,000	.....
Sault Ste. Marie.....	461,500	.....
Southampton.....	140,000	.....
Wiarton.....	2,265,000	886,000	.....
Totals.....	2,265,000	3,609,195	28,045

PERCH

Hatchery	Fry
Kingsville.....	20,450,000

MASKINONGE

Hatchery	Fry	Fingerlings
Deer Lake.....	1,150,000	6,875
Total.....	1,150,000	6,875

PICKEREL

Hatchery	Fry
Collingwood.....	2,550,000
Deer Lake.....	10,000,000
Fort Frances.....	23,250,000
Glenora.....	15,160,000
Kenora.....	43,750,000
Kingsville.....	150,000
Little Current.....	18,850,000
Pembroke.....	3,975,000
Sarnia.....	2,200,000
Sault Ste. Marie.....	5,000,000
Skeleton Lake.....	17,500,000
Total.....	142,385,000

SMALL-MOUTH BASS

Hatchery	Fry	Fingerlings	Yearlings and Adults
Deer Lake.....	.....	35,000	200
Glenora.....	15,000	150	.....
*Miscellaneous.....	.....	.....	3,149
Mount Pleasant.....	.....	29,550	100
Sandfield.....	.....	138,260	393
Skeleton Lake.....	315,000	35,600	389
White Lake.....	55,000	74,150	187
Total.....	385,000	312,710	4,418
*Miscellaneous: Lake Placid.....			143
Fox Lake.....			1,112
Shoe Pack Lake.....			1,539
Cooks Lake.....			355
			3,149

LARGE-MOUTH BASS

Hatchery	Fingerlings	Adults
Mount Pleasant.....	9,500	27
Total.....	9,500	27

ATLANTIC SALMON

Hatchery	Fingerlings	Yearlings
Glenora.....	84,210	.....
Hills Lake.....	.....	4,000
Total.....	84,210	4,000

SPECKLED TROUT

Hatchery	Eggs	Fingerlings	Yearlings	Adults
Chatsworth.....	20,000	172,910	.....
Codrington.....	43,770	.....
Deer Lake.....	33,600	.....
Dorion.....	42,600	261,400	3,385
Hills Lake.....	298,650	715
Midhurst.....	75,100	.....
Mount Pleasant.....	92,550	.....
North Bay.....	231,900	.....
Pembroke.....	22,130	139,600	.....
Sandfield.....	507,700	.....
Sault Ste. Marie.....	50,000	.....	504,600	4,556
Skeleton Lake.....	231,000	.....
White Lake.....	168,000	.....
Totals.....	50,000	84,730	2,760,780	8,656

WHITEFISH

Hatchery	Fry
Collingwood.....	39,240,000
Fort Frances.....	27,215,000
Kenora.....	37,125,000
Kingsville.....	52,300,000
Little Current.....	26,000,000
Normandale.....	8,000,000
Port Arthur.....	590,000
Sarnia.....	15,030,000
Sault Ste. Marie.....	90,000
Total.....	205,590,000

HERRING

Hatchery	Fry
Normandale.....	68,750,000
Sarnia.....	924,000
Total.....	69,674,000

APPENDIX No. 3

DISTRIBUTION OF FISH ACCORDING TO COUNTIES

April 1, 1946 to March 31, 1947

MASKINONGE

County	Fry	Fingerlings
Durham.....	10,000	.....
Grenville.....	10,000	.....
Hastings.....	95,000	.....
Leeds.....	10,000	.....
Muskoka.....	45,000	.....
Nipissing.....	50,000	.....
Northumberland.....	105,000	200
Ontario.....	30,000	.....
Peterborough.....	565,000	3,875
Prince Edward.....	.....	400
Simcoe.....	.....	300
Stormont.....	10,000	.....
Sudbury.....	30,000	.....
Victoria.....	200,000	1,100
Total.....	1,150,000	6,875

KAMLOOPS TROUT

County	Adults
Muskoka.....	3,600
Parry Sound.....	1,250
Total.....	4,850

RAINBOW TROUT

County	Yearlings
Elgin.....	1,200
Dufferin.....	410
Total.....	1,610

PERCH

Great Lakes	Fry
Mitchells Bay.....	1,000,000
Lake Erie.....	19,450,000
	20,450,000

ATLANTIC SALMON

County	Fingerlings	Yearlings
Nipissing.....	.....	3,500
Sudbury.....	.....	500
Ontario.....	84,210	.....
Total.....	84,210	4,000

PICKEREL

County	Fry
Algoma.....	4,150,000
Bruce.....	715,000
Carleton.....	400,000
Frontenac.....	8,600,000
Grenville.....	300,000
Haliburton.....	1,300,000
Hastings.....	2,400,000
Kenora.....	9,750,000
Kent.....	300,000
Lambton.....	250,000
Lanark.....	900,000
Leeds.....	1,000,000
Lennox.....	1,550,000
Manitoulin.....	2,350,000
Middlesex.....	400,000
Muskoka.....	3,035,000
Nipissing.....	10,300,000
Northumberland.....	2,150,000
Ontario.....	375,000
Oxford.....	200,000
Parry Sound.....	10,200,000
Peterborough.....	4,300,000
Prince Edward.....	960,000
Rainy River.....	17,250,000
Renfrew.....	2,975,000
Simcoe.....	525,000
Stormont.....	500,000
Sudbury.....	8,100,000
Thunder Bay.....	2,000,000
Victoria.....	1,700,000
York.....	100,000
Great Lakes	
Lake Erie.....	150,000
Georgian Bay.....	500,000
Lake Huron.....	1,050,000
North Channel.....	3,200,000
Lake Superior.....	450,000
Lake-of-the-Woods.....	38,000,000
Total.....	142,385,000

SPECKLED TROUT

County	Eggs	Fingerlings	Yearlings	Adults
Algoma.....		3,000	529,000	4,556
Bruce.....			17,200	
Cochrane.....			138,500	
Dufferin.....			16,900	
Durham.....			15,150	
Elgin.....			9,300	
Frontenac.....			49,500	
Grey.....	20,000		116,950	
Haliburton.....			44,200	
Halton.....			4,200	
Hastings.....			118,550	
Huron.....			10,750	
Kenora.....		5,000	9,200	
Lanark.....			2,400	
Lennox-Addington.....			38,300	
Manitoulin.....			121,500	
Middlesex.....			6,000	
Muskoka.....			115,350	
Nipissing.....		19,130	149,350	
Norfolk.....			30,900	
Northumberland.....			23,350	
Ontario.....			2,050	
Oxford.....			6,985	
Parry Sound.....			211,400	
Peel.....	50,000		14,400	
Perth.....			600	
Peterborough.....			12,900	
Rainy River.....			2,000	
Renfrew.....		3,000	85,600	
Simcoe.....			34,100	
Sudbury.....			390,600	
Thunder Bay.....		34,600	228,300	3,385
Timiskaming.....			143,200	715
Victoria.....			8,650	
Waterloo.....			12,600	
Wellington.....			33,850	
Wentworth.....			3,600	
York.....			3,395	
Totals.....	50,000	143,386	2,760,780	8,656

WHITEFISH

Great Lakes	Fry
Lake Erie.....	60,300,000
Georgian Bay.....	42,240,000
Lake Huron.....	24,030,000
Lake of the Woods.....	31,625,000
North Channel.....	14,000,000
Lake Superior.....	1,680,000
Kenora.....	4,000,000
Rainy River.....	27,215,000
Thunder Bay.....	1,500,000
Total.....	205,900,000

HERRING

Great Lakes	Fry
Lake Huron.....	924,000
Lake Erie.....	68,750,000
Total.....	69,674,000

SMALL-MOUTH BASS

County	Fry	Fingerlings	Adults
Algoma.....	.....	40,750	.....
Brant.....	.....	.....	100
Bruce.....	.....	7,000	.....
Elgin.....	.....	1,000	.....
Frontenac.....	55,000	40,800	1,726
Grey.....	.....	1,500	.....
Haliburton.....	.....	1,800	143
Hastings.....	.....	5,800	90
Huron.....	.....	2,250	.....
Kenora.....	.....	.....	1,112
Lambton.....	.....	1,000	.....
Lanark.....	.....	19,000	.....
Leeds.....	.....	4,250	.....
Lennox and Addington.....	.....	5,100	.....
Manitoulin.....	.....	19,500	393
Middlesex.....	.....	2,000	.....
Muskoka.....	165,000	1,500	.....
Nipissing.....	70,000	28,500	.....
Norfolk.....	.....	1,000	.....
Northumberland.....	.....	2,000	.....
Ontario.....	5,000	2,650	.....
Parry Sound.....	75,000	35,600	389
Peel.....	.....	1,000	.....
Perth.....	.....	650	.....
Peterborough.....	.....	18,200	110
Prince Edward.....	15,000	50	.....
Renfrew.....	.....	2,500	.....
Simcoe.....	.....	6,500	.....
Sudbury.....	.....	49,510	.....
Thunder Bay.....	.....	.....	355
Victoria.....	.....	8,800	.....
Waterloo.....	.....	1,500	.....
Wellington.....	.....	1,000	.....
Totals.....	385,000	312,710	4,418

LARGE-MOUTH BASS

County	Fingerlings	Adults
Brant.....	.....	27
Simcoe.....	2,000	..
Victoria.....	6,500	..
Waterloo.....	1,000	..
Totals.....	9,500	27

BROWN TROUT

County	Fingerlings	Yearlings
Brant.....	.....	10,400
Bruce.....	.....	12,890
Carleton.....	5,000	.....
Dufferin.....	.....	9,000
Durham.....	29,000	1,000
Elgin.....	.....	2,400
Grey.....	.....	16,800
Haldimand.....	.....	3,600
Haliburton.....	10,000	.....
Halton.....	.....	21,400
Hastings.....	11,000	.....
Huron.....	.....	7,500
Lennox-Addington.....	5,000	.....
Lincoln.....	.....	2,400
Middlesex.....	.....	6,300
Norfolk.....	.....	44,600
Northumberland.....	13,025	.....
Ontario.....	8,000	.....
Oxford.....	.....	24,900
Peel.....	.....	34,000
Perth.....	.....	3,600
Peterborough.....	42,000	.....
Renfrew.....	5,000	.....
Simcoe.....	.....	7,800
Victoria.....	5,000	.....
Waterloo.....	.....	23,400
Welland.....	.....	7,800
Wellington.....	.....	17,600
Wentworth.....	.....	4,200
York.....	.....	7,350
Totals.....	133,025	268,940

LAKE TROUT

County	Fry	Fingerlings	Yearlings
Algoma.....	95,500	.....
Bruce.....	5,000	.....	4,225
Cochrane.....	5,000	1,200
Frontenac.....	50,150	.....
Haliburton.....	144,415	.....
Hastings.....	33,275	.....
Kenora.....	67,000	.....
Lanark.....	5,100	.....
Leeds.....	7,225	.....
Lennox-Addington.....	11,050	.....
Manitoulin.....	16,000	.....
Muskoka.....	140,000	.....
Nipissing.....	16,125	6,000
Parry Sound.....	110,000	.....
Peterborough.....	36,550	.....
Rainy River.....	2,400	.....
Renfrew.....	18,000	.....
Simcoe.....	4,000	.....
Sudbury.....	46,000	800
Thunder Bay.....	129,000	1,635
Timiskaming.....	1,135
Victoria.....	905	.....
York.....	25,000	8,550
Great Lakes			
Georgian Bay.....	2,110,000	320,000	.....
Lake Huron.....	150,000	300,000	.....
North Channel.....	121,000	.....
Lake Superior.....	1,885,000	4,500
Lake-of-the-Woods.....	18,500	.....
Totals.....	2,265,000	3,609,195	28,045

APPENDIX No. 4
FISH DISTRIBUTION BY HATCHERIES
April 1, 1946 to March 31, 1947

Hatchery	Fry	Fingerlings	Yearlings	Adults	Total
CHATSWORTH					
Speckled Trout.....		20,000	172,910	.....	192,910
Brown Trout.....		.....	34,790	.....	34,790
Lake Trout.....		.....	12,775	.....	12,775
Kamloops Trout.....		.....	.....	4,850	4,850
					245,325
CODRINGTON					
Speckled Trout.....		.....	43,770	.....	43,770
Brown Trout.....		.....	1,000	.....	1,000
					44,770
COLLINGWOOD					
Whitefish.....	39,240,000	.....	.....	.....	39,240,000
Pickereel.....	2,550,000	.....	.....	.....	2,550,000
					41,790,000
DEER LAKE					
Speckled Trout.....	.....	.....	33,600	.....	33,600
Pickereel.....	10,000,000	.....	.....	.....	10,000,000
Maskinonge.....	1,150,000	6,875	.....	.....	1,156,875
Bass—Small-mouth.....	.....	35,000	.....	200	35,200
					11,220,675
DORION					
Speckled Trout.....	.....	42,600	261,400	3,385	307,385
Lake Trout.....	.....	.....	6,135	.....	6,135
					313,520
FORT FRANCES					
Pickereel.....	23,250,000	.....	.....	.....	23,250,000
Whitefish.....	27,215,000	.....	.....	.....	27,215,000
Lake Trout.....	.....	6,400	.....	.....	6,400
					50,471,400
GLENORA					
Pickereel.....	15,160,000	.....	.....	.....	15,160,000
Lake Trout.....	.....	169,795	.....	.....	169,795
Brown Trout.....	.....	133,025	.....	.....	133,025
Bass—Small-mouth.....	15,000	150	.....	.....	15,150
Atlantic Salmon.....	.....	84,210	.....	.....	84,210
					15,562,180
HILLS LAKE					
Speckled Trout.....	.....	.....	298,650	715	299,365
Lake Trout.....	.....	5,000	9,135	.....	14,135
Atlantic Salmon.....	.....	.....	4,000	.....	4,000
					317,500

APPENDIX No. 4
FISH DISTRIBUTION BY HATCHERIES
April 1, 1946 to March 31, 1947

Hatchery	Fry	Fingerlings	Yearlings	Adults	Total
KENORA					
Whitefish.....	37,125,000	.....	.....	.....	37,125,000
Pickrel.....	43,750,000	.....	.....	.....	43,750,000
Lake Trout.....	.....	85,500	.....	.....	85,500
					80,960,500
KINGSVILLE					
Whitefish.....	52,300,000	.....	.....	.....	52,300,000
Perch.....	20,450,000	.....	.....	.....	20,450,000
Pickrel.....	150,000	.....	.....	.....	150,000
					72,900,000
LITTLE CURRENT					
Whitefish.....	26,000,000	.....	.....	.....	26,000,000
Perch.....	18,850,000	.....	.....	.....	18,850,000
					44,850,000
MIDHURST					
Speckled Trout.....	.....	.....	75,100	.....	75,100
MISCELLANEOUS					
Bass—Small-mouth.....	.....	.....	.....	3,149	3,149
MOUNT PLEASANT					
Speckled Trout.....	.....	.....	92,550	.....	92,550
Brown Trout.....	.....	.....	95,800	.....	95,800
Bass—Small-mouth.....	.....	29,550	.....	100	29,650
Bass—Large-mouth.....	.....	9,500	.....	27	9,527
					227,527
NORMANDALE					
Whitefish.....	8,000,000	.....	.....	.....	8,000,000
Brown Trout.....	.....	.....	137,350	.....	137,350
Rainbow Trout.....	.....	.....	1,610	.....	1,610
Herring.....	68,750,000	.....	.....	.....	68,750,000
					76,888,960
NORTH BAY					
Speckled Trout.....	.....	.....	231,900	.....	231,900
PEMBROKE					
Speckled Trout.....	.....	22,130	139,600	.....	161,730
Pickrel.....	3,975,000	.....	.....	.....	3,975,000
					4,136,730
PORT ARTHUR					
Whitefish.....	590,000	.....	.....	.....	590,000
Lake Trout.....	.....	1,855,000	.....	.....	1,855,000
					2,445,000

APPENDIX No. 4
FISH DISTRIBUTION BY HATCHERIES
April 1, 1946 to March 31, 1947

Hatchery	Fry	Fingerlings	Yearlings	Adults	Total
SANDFIELD					
Speckled Trout.....	.....	.....	507,700	.....	507,700
Bass—Small-mouth.....	.....	138,260	.....	393	138,653
					646,353
SARNIA					
Whitefish.....	15,030,000	.....	.....	.....	15,030,000
Herring.....	924,000	.....	.....	.....	924,000
Pickrel.....	2,200,000	.....	.....	.....	2,200,000
					18,154,000
SAULT STE. MARIE					
Whitefish.....	90,000	.....	.....	.....	90,000
Pickrel.....	5,000,000	.....	.....	.....	5,000,000
Lake Trout.....	.....	461,500	.....	.....	461,500
					5,551,500
SAULT TROUT REARING STN.					
Speckled Trout.....	50,000	.....	504,600	4,556	559,156
SKELETON LAKE					
Bass—Small-mouth.....	315,000	35,600	.....	389	350,989
Speckled Trout.....	.....	.....	231,000	.....	231,000
Pickrel.....	17,500,000	.....	.....	.....	17,500,000
					18,081,989
SOUTHAMPTON					
Lake Trout.....	.....	140,000	.....	.....	140,000
WHITE LAKE					
Speckled Trout.....	.....	.....	168,000	.....	168,000
Bass—Small-mouth.....	55,000	74,150	.....	187	129,337
					297,337
WIARTON					
Lake Trout.....	2,265,000	886,000	.....	.....	3,151,000

APPENDIX No. 5
A COMPARATIVE TABLE SHOWING THE FISH DISTRIBUTION
ACCORDING TO SPECIES

Species	1942	1943	1944	1945	1946
Bass—Large-mouth					
Fry.....	185,000	507,500	130,000	.....	.....
Fingerlings.....	19,100	38,500	14,600	5,000	9,500
Yearlings and Adults..	290	290	51	.....	27
Bass—Small-mouth					
Fry.....	1,535,500	1,512,000	2,030,000	448,000	385,000
Fingerlings.....	718,259	392,700	664,400	348,368	312,710
Yearlings and Adults..	2,355	1,369	2,834	5,322	4,418
Maskinonge					
Fry.....	1,575,000	1,165,000	2,705,000	2,030,000	1,150,000
Fingerlings.....	705	2,150	2,952	200	6,875
Perch—Fry.....	24,175,000	19,000,000	18,480,000	12,000,000	20,450,000
Pickrel (Yellow) Fry....	301,760,000	263,875,000	271,265,000	177,595,000	142,385,000
Pickrel (Blue) Fry.....	.....	150,000	.....	.....	.....
Brown Trout					
Eggs and Fry.....	.....	10,000	.....	50,000	.....
Fingerlings.....	23,000	1,000	.....	.....	133,025
Yearlings.....	359,275	303,335	330,750	224,749	268,940
Lake Trout					
Eggs and Fry.....	767,000	325,000	3,176,500	765,000	2,265,000
Fingerlings.....	15,429,600	8,048,800	3,475,995	7,248,040	3,609,195
Yearlings.....	10,680	60,860	44,018	88,700	28,045
Rainbow Trout					
Fingerlings.....	111,000	73,242	32,186	5,563	.....
Yearlings.....	12,900	15,450	3,900	.....	1,610
Kamloops Trout					
Yearlings.....	24,800	5,000	7,200	9,900	.....
Adults.....	.....	.....	.....	.....	4,850
Speckled Trout					
Fry.....	500	5,000	.....	5,000	50,000
Fingerlings.....	631,775	9,400	493,840	117,300	84,730
Yearlings.....	2,918,513	3,083,983	2,876,963	3,005,573	2,760,780
Adults.....	7,527	10,292	4,360	4,460	8,656
Whitefish—Fry.....	395,052,000	371,677,500	259,435,000	240,786,775	205,590,000
Herring—Fry.....	18,430,000	24,560,000	5,662,000	6,405,000	69,674,000
Minnnows.....	500	.....	25,000	4,000	.....
Atlantic Salmon.....	.....	.....	30,000	41,350	88,210
Totals.....	763,750,279	694,833,371	570,892,549	451,193,300	449,270,571

COMMERCIAL FISHING

Insofar as the Commercial Fisheries Section of the Division of Fish and Wildlife is concerned, the fiscal year ending March 31, 1947, was largely devoted to reorganization, with a view to establishing more direct contact with the fishermen themselves and thereby increasing the service rendered to them, both individually and through their organizations. Particular attention was given to matters concerning legislation and toward the securing of an adequate statistical set-up to use as a basis for the development of a sound management policy.

The commercial fisheries maintained in our Northern Inland waters caught and marketed over 14 percent of the total catch for Ontario in 1946. Since most of this fishing is done in small inland lakes, it is obvious that commercial fishing operations, unrestricted as to size of catch, could quite easily result in depletion of certain species. With this in mind, a system of budgeting the catch of individual licences was instituted in the spring of 1947. Based on the previous production records the catch was limited for certain species. This ceiling on catch was placed on a level at which it was thought production could be maintained by leaving sufficient stock in the lake. This limit was set on a flexible basis and with a view to changing it from year to year, as conditions warranted. The possibility of the level being raised at a future date, is as great as that it will be lowered, or maintained at the level previously set.

At the time the Department of Game and Fisheries was taken over by the Department of Lands and Forests and formed into what is now known as the Division of Fish and Wildlife, it was decided to bring into being a new method of obtaining statistical data regarding the commercial fishing industry of the Province. This new system would thus enable the Department to have on hand a more detailed collection of data, which heretofore was not available.

Up to the present time the only information obtainable is the data submitted by each holder of a commercial fishing licence at the end of each year. These returns are totalled and made up into an Annual Report, as shown in the two appendices under the headings "Equipment" and "Quantities of Fish Taken". There is, however, no way of obtaining from this Annual Report under the heading "Quantities of Fish Taken" any information as to what month the fish were taken, or from what area or district of a lake the fish were taken. There is also no way of obtaining from this Annual Report, under both the "Equipment" and "Catch" heading, any information regarding the type of gear used to take any particular species, or the amount of gear used to take any particular species. This Annual Report, therefore, gives only the total catch by lake or area of each species of fish taken that year, which is of value in itself, but is not sufficient for a further statistical analysis.

It was felt, therefore, that in order to properly administer the commercial fisheries, it was essential to have statistical data on hand that would show an indication of the changes in the abundance of the commercial species. It was essential that this data must, therefore, include a record, not only of the quantities of fish taken, but also of the extent of the fishing operations that led to that catch or, in other words, the effort that was put forth to obtain that catch. The true condition of the fisheries, therefore, cannot be measured accurately by statistics of catch alone but should be expressed in terms of production in relation to fishing intensity, that is, "catch per unit of fishing effort".

With this in mind the Department created a new system by which all licensed fishermen were required to report their daily fishing activities. Under this system all commercial fishermen must submit at the end of each month a

STATISTICS OF THE FISHING INDUSTRY IN THE PUBLIC WATERS OF ONTARIO
For the year ending December 31, 1946
EQUIPMENT

District	No. of Men	Tugs		Gasoline Launches		Sail and Row Boats		Gill Nets		Seine Nets		Pound Nets		Hoop Nets		Dip and Roll Nets		Night Lines		Spears		Freezers & Ice Houses		Piers and Wharves		Total Value \$
		No.	Value \$	No.	Value \$	No.	Value \$	Yards	Value \$	No.	Yards	No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	
North, Inland Waters	459	7	82	163	118,252	408	28,663	712,904	113,604			33	15,025	67	3,115			7,500	596			147	48,510	120	20,030	401,195
Lake Superior	451	14	478	136	131,585	91	6,670	1,263,622	196,288			34	14,800							26	130	68	35,705	61	17,285	496,863
North Channel	64	2	19	27	19,450	29	1,650	155,000	17,217			37	12,600									19	6,600	15	5,350	69,667
Georgian Bay	379	14	349	132	141,295	99	5,175	1,414,023	170,825	2	300	61	60,650	33	675			25,200	5,405	12	60	60	23,375	55	33,375	550,580
Lake Huron	188	5	162	71	81,975	19	1,109	711,382	89,901			82	61,400					1,800	200	20	100	44	28,665	19	7,400	317,750
Lake St. Clair	94			39	21,745	67	5,055			21	5,300	140	21,350					5,700	412			16	11,150	11	2,345	65,492
Lake Erie	1,215	65	1,298	207	560,896	130	14,050	3,734,750	573,257	36	9,325	687	401,280	18	3,080	1	10	3,400	262			133	330,325	116	52,350	2,505,380
Lake Ontario	646			240	140,620	174	12,280	1,066,518	122,212	11	1,140	5	3,000	794	25,750	10	3,245	2,700	139	12	60	31	7,375	36	8,505	324,536
South, Inland Waters	248			19	4,360	124	5,655	2,000	200	51	4,385	5,885		376	14,765	24	131	1,800	79			7	1,040	4	300	32,415
Totals	4,244	107	2,388	1,064	1,220,178	1,141	80,307	9,090,199	1,283,504	121	20,450	1,079	590,105	1,288	47,385	35	3,386	48,100	7,183	70	350	525	492,745	437	147,840	4,763,778

STATISTICS OF THE FISHING INDUSTRY IN THE PUBLIC WATERS OF ONTARIO

For the year ending December 31, 1946

QUANTITIES OF FISH TAKEN

District	Herring lbs.	Whitefish lbs.	Trout lbs.	Pike lbs.	Pickeral (Blue) lbs.	Pickeral (Dore) lbs.	Sturgeon lbs.	Eels lbs.	Perch lbs.	Tulibee lbs.	Catfish lbs.	Carp lbs.	Mixed Coarse lbs.	Caviare lbs.	Total lbs.	Value \$
Northern Inland Waters	2,229	1,416,919	147,892	743,532		1,620,630	144,610		6,490	162,027	31,627		441,691	1,452	4,719,299	896,020.72
Lake Superior	1,511,185	274,992	1,530,894	7,539		120,462	2,118		1,703	33,086		22	106,688		3,588,689	639,033.91
North Channel	385	24,866	6,022	80,738		28,493	7,126		2,445	134	980	5,788	132,597	136	289,710	42,309.37
Georgian Bay	2,118	246,418	665,925	24,849		44,104	915		2,350	24,750	5,762	46,332	179,688	15	1,292,226	331,969.00
Lake Huron	103,639	157,567	29,539	53,383	368	69,771	6,793		335,933	88,573	7,944	16,512	83,350	427	953,799	151,437.60
Lake St. Clair		205		14,906		48,507	3,618		37,286		62,800	140,039	185,852	189	493,402	59,978.63
Lake Erie	9,524,975	1,932,201	1,772	33,103	1,808,867	739,264	13,018	13,714	2,417,706		73,484	161,238	2,105,697	305	18,925,344	3,038,814.86
Lake Ontario	413,075	397,887	102,445	50,327	63,030	44,809	7,027	34,733	164,538		288,024	196,783	295,937	83	2,058,698	316,925.57
Southern Inland Waters				7,247				3,037	5,016		159,074	192,519	312,059		678,952	70,539.22
Totals	11,576,006	4,451,055	2,514,489	1,015,624	1,872,265	2,716,040	185,225	51,484	2,973,467	308,570	629,695	759,233	3,843,559	2,807	33,000,119	
Values	1,425,588.78	1,233,967.72	806,007.89	99,659.83	353,772.86	581,466.54	165,002.15	4,353.67	446,121.32	25,337.15	92,547.88	58,026.35	298,378.74	6,797.00		5,597,028.88

complete record of their daily fishing activities. This plan of reporting was adopted from the monthly report system now in effect in the State of Michigan and other states bordering the Great Lakes, where it has been enforced now for some fifteen years with very satisfactory results. The monthly report includes such required data on each day's fishing activities as, the month in which the fishing was done, the fishing locality (that is, lake and the section of that lake), the kind and amount of gear fished and the catch in pounds of each species taken.

In order to be able to obtain data for individual areas or districts within a lake, all of the Great Lakes have been divided into statistical districts, in such a way so as to make the districts on the Ontario side of the Great Lakes comparable to the similar districts on the United States side. Therefore, it is hoped that data on the commercial fishing in the Great Lakes will be on a more uniform basis, as many of the States bordering the Great Lakes, as well as the Province of Ontario, have adopted this statistical system of collecting records. By having our districts coinciding as near as possible with those on the United States side of the Great Lakes, a more complete picture can be presented.

The reports are sorted according to the month, the district, and the type of gear, and at the end of each year a complete statistical analysis will be made from these reports. This analysis will make possible an estimation of the annual fluctuations and the abundance of the different commercial species in the various statistical districts, as these fluctuations are reflected in the "catch per net". It is hoped, therefore, to have on hand, data for each of the commercial species of fish in the Province, as to the quantity of fish taken, the amount of gear used to take that catch, the month in which it was taken, and the area of a district of a lake from where it was taken.

These monthly reports do not include any information such as the number of men employed per licence, the amount of gear on hand and the value of same, and with this in mind it has been decided to continue with the Annual Report, as it will be used to obtain these facts and also to show the total catch of a lake by species by year.

At first, the monthly reports were incomplete and individual reports were often faulty. It is not felt that any reliable data will be obtained from the reports of 1946 and 1947, as it will take some little time before the system is properly functioning and all fishermen are reporting correctly each month. It is hoped that by the beginning of 1948 this system should be sufficiently established to be able to make an analysis of the data obtained during the months of 1948.

The overall picture of the commercial fisheries in Ontario in 1946, showed a net decrease of 1,277,624 pounds as compared with 1945. This reduction in catch was spread throughout the fishery in general and at the same time there was an increase in the gear used. This would indicate that the fisheries throughout the Province were even less productive than the statistics of catch alone would indicate when comparison is made with 1945.

In 1946, Lake Erie produced over half the total catch for the whole Province. The productive capacity of this lake is fairly stable, although there are, of course, some years in which the catch drops to a low ebb and in other years, reaches a peak. However, this catch in general tends to level off since the reduction in numbers of one species, in any one year, usually is replaced by an increased production of another or several other species in that year. It is notable that although there was a decrease of 4,649,899 lbs. in the catch of blue pickerel in Lake Erie, the net decrease in total catch for the lake was only 24,233 lbs.

Lake Superior and Lake Ontario are also maintaining a fairly stable level, despite the fact that the catch is down in each case this year. While these lakes are not as productive as Lake Erie and they do not have as great a variety of fish entering the catch, the fishing effort is not as intensive. The latter may account in part for the relative stability of the total catch.

The fisheries in Lake Huron, Georgian Bay and North Channel are at a very low ebb at present, due to the fact that the lake trout and whitefish catches have decreased tremendously during the past six years.

The total catch from northern inland waters was less in 1946 than in 1945, whereas the total catch from southern inland waters (largely bullheads, carp and other coarse fish) shows a slight increase.

COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES
OF ONTARIO BY LAKE

Lake	1945 Pounds	1946 Pounds	Increase Pounds	Decrease Pounds
Ontario.....	2,338,186	2,058,698	.....	279,488
Erie.....	18,949,577	18,925,344	.....	24,233
St. Clair.....	502,991	493,402	.....	9,589
Huron.....	1,070,900	953,799	.....	117,101
Georgian Bay.....	1,524,489	1,292,226	.....	232,263
North Channel.....	433,990	289,710	.....	144,280
Superior.....	3,812,064	3,588,689	.....	223,375
South Inland Waters.....	606,002	678,952	72,950	.....
North Inland Waters.....	5,039,544	4,719,299	.....	320,245
	34,277,743	33,000,119	72,950	1,350,574
Net Decrease.....				1,277,624

COMPARATIVE STATEMENT OF THE YIELD OF THE
FISHERIES OF ONTARIO

Species	1945 Pounds	1946 Pounds	Increase Pounds	Decrease Pounds
Herring.....	9,124,060	11,576,606	2,452,546	.....
Whitefish.....	4,265,089	4,451,055	185,966	.....
Trout.....	2,588,980	2,514,489	.....	74,491
Pike.....	1,104,376	1,015,624	.....	88,752
Pickrel (Blue).....	6,582,466	1,972,265	.....	4,610,201
Pickrel (Yellow).....	3,021,173	2,716,040	.....	305,133
Sturgeon.....	139,224	185,225	46,001	.....
Eels.....	46,719	51,484	4,765	.....
Perch.....	1,695,084	2,973,467	1,278,383	.....
Tullibee.....	699,637	308,570	.....	391,067
Catfish.....	557,546	629,695	72,149	.....
Carp.....	638,068	759,233	121,165	.....
Mixed and Coarse.....	3,812,355	3,843,559	31,204	.....
Caviar.....	2,966	2,807	.....	159
	34,277,743	33,000,119	4,192,179	5,469,803
Net Decrease.....				1,277,624



DIGGING A FIRE LINE IN AWREY TOWNSHIP

DIVISION OF FOREST PROTECTION

FIRE AND HAZARD CONDITIONS

The fire season was, on the whole, a fairly moderate one. The number of fires was above the average, but the area burned over was relatively small. The warm weather at the end of March created a fairly high hazard in the eastern part of the Province for a short period, but in general the weather was favourable during April and May. There was a high hazard in the western part of the Province during the first part of June and in the Sudbury and Parry Sound Districts during the latter part of July and first part of August, but apart from a short period of high hazard in the early part of October in the same two districts, there were no acute or prolonged hazards in the latter part of the summer.

LEGISLATION

An Act to amend The Forest Fires Prevention Act (Bill No. 98) was passed at the 1946 session of the Legislature and became law on June 5, 1946. The more important changes are:

1. The office of Provincial Forester is abolished.
2. Provision made to enter into agreements with municipalities for prevention and control of fires.
3. Provision for the entire cost of extinguishing fires confined to Crown Land to be borne by the Department.
4. Onus of proof placed upon permittee where fire originates in an area in which summer operations are being carried on.
5. Section 24 requiring employees of operators to wear badges was repealed.

An Order-in-Council revising the Regulations under The Forest Fires Prevention Act was passed on July 4th, 1946. This made some changes in the general regulations and in the boundaries of the fire districts and travel permit areas.

Due to hazardous fire conditions, eight areas in Cochrane District were closed to travel for ten days in the first part of August and a section of the Mississagi Road in Sault Ste. Marie District was closed to travel from August 5 to September 13.

The number of prosecutions for breaches of the Forest Fires Prevention Act was seventeen, all but three of which resulted in convictions.

ORGANIZATION

On December 1, 1946 Mr. C. R. Mills resigned as Chief of the Division of Forest Protection and was replaced by Mr. T. E. Mackey, who was formerly Regional Forester at North Bay.

By Order-in-Council dated July 4, 1946, Manitoulin and Cockburn Islands and Lots 16 to 53 of the Wild Land Reserve in the Municipality of Atwood were removed from the Fire District and the townships of Morson, McCrosson and Tovell were added to the Fire District.

On April 1, 1946, Chapleau and Biscotasing Divisions of Sudbury District were formed into a new district known as Chapleau District, with headquarters at Chapleau, and Gogama and Foleyet Divisions and part of Capreol Division were formed into a new District known as Gogama District, with headquarters at Gogama.

On May 1, 1946, Mr. J. W. Jones and Mr. R. K. Strang were transferred from the Main Office of the Department of Game and Fisheries to the Division of Forest Protection. Mr. Jones will continue in the capacity of Superintendent of Construction and Mr. Strang as Mechanical Supervisor.

During July and August the fire ranging staff was again augmented by some eighty high school students who did valuable work on improvements and on fire suppression.

EQUIPMENT

There were no new developments during the past fiscal year.

IMPROVEMENTS

Some ranger cabins and smaller headquarters buildings were constructed and some telephone lines built but no extensive building programme was carried out due to shortage of materials.

The Department of Public Works continued the construction of buildings at the Forest Ranger School. The buildings completed to date are a dormitory, boiler house and heating plant, dining hall and kitchen with living quarters for kitchen staff. Underway are a workshop and garage, the Director's house and Administration Office, the school building and two fire hydrant and hose houses.

Total Improvements Completed to March 31, 1947

Cabins	547
Storehouses	152
Boathouses	60
Combined Storehouses and Boathouses	27
Bunkhouses	62
Offices	36
Garages & Car Houses	89
Other Buildings	213
Hose Towers	63
Wooden Lookout Towers	52
Steel Lookout Towers	227
Telephone Lines (miles)	3740

RADIO COMMUNICATIONS
Radio Sets in Use During 1946

District	Tower Sets	P'tb'le Sets	Boat Sets	Pack Sets	Model 30	Model 300	Misc.	Air- craft	Totals
Sioux Lookout.....	14	1	.....	1	6	2	.....	4	28
Kenora.....	14	1	.....	.....	2	1	.....	2	20
Fort Frances.....	11	.....	.....	.....	6	.....	.....	1	18
Port Arthur.....	14	1	1	.....	5	2	3	3	29
Geraldton.....	9	.....	.....	.....	4	1	.....	2	16
Kapuskasing.....	10	.....	.....	.....	5	.....	.....	1	16
Cochrane.....	14	.....	.....	.....	3	.....	.....	1	18
Sault Ste. Marie...	27	4	.....	.....	4	1	.....	2	38
Sudbury.....	12	1	.....	.....	.....	.....	.....	1	14
Chapleau.....	11	1	.....	.....	1	.....	.....	1	14
Gogama.....	11	1	.....	.....	1	.....	.....	.....	13
North Bay.....	20	.....	.....	.....	2	.....	.....	1	23
Algonquin.....	12	.....	.....	.....	.....	.....	.....	1	13
Head Office.....	1	7	5	5	1	.....	.....	.....	19
TOTAL.....	180	17	6	6	40	7	3	20	279

An additional four radio equipped aircraft were added to the Division of Air Service bringing the total to 20, with the following distribution:

CF-OAV—Kenora District
 CF-OAW—Geraldton District
 CF-OAY—Cochrane District
 CF-OBA—Sault Ste. Marie District
 CF-OBG—Sioux Lookout District
 CF-BGJ—Kapuskasing District
 CF-BGM—Algonquin District
 CF-BGN—Sioux Lookout District
 CF-OBC—Sioux Lookout District
 CF-OBG—Kenora District
 CF-OBE—Port Arthur District
 CF-OBF—Sudbury District
 CF-OBG—Port Arthur District
 CF-OBH—Sault Ste. Marie District
 CF-OBH—Sioux Lookout District
 CF-OBH—North Bay District
 CF-OBL—Port Arthur District
 CF-OBM—Fort Frances District
 CF-OBN—Geraldton District
 CF-OBO—Sudbury District

Fourteen Model 30, four frequency transmitters were constructed in the Department's shops, with distribution as follows:

Fort Frances District.....	1	Kapuskasing District.....	4
Kenora District.....	1	Cochrane District.....	1
Sioux Lookout District.....	1	North Bay District.....	1
Port Arthur District.....	2	Sault Ste. Marie District.....	1
Geraldton District.....	2		

Seventeen all-wave communication receivers were purchased for the above transmitters, and eight High Frequency tower trans-receivers obtained and distributed throughout the Algonquin District.

HAZARD DISPOSAL

A certain amount of hazard clearing was carried out. The fire guard at Larder Lake was extended by an additional 30 acre clearing and work was done on the fire guard at Biscotasing. Hazard clearing was carried out along the Nipigon-Beardmore Highway and along three roads in Sudbury and Gogama Districts.

INSECT CONTROL

The Forest Insect Laboratory at Sault Ste. Marie was in full operation during the year, the Department of Agriculture, Canada carrying on investigative work in forest entomology throughout the Province and administering the forest insect survey.

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TABLE NO. 1
NUMBER OF MEN ON DUTY INCLUDING CHIEF AND DEPUTY
CHIEF RANGERS

	1946	1945	1944	1943	1942	1941	1940
April 1st.....	591	145	162	128	113	94	82
April 15th.....	591	309	169	141	141	129	116
May 1st.....	1108	596	477	264	633	461	362
May 15th.....	1111	720	718	559	896	791	709
June 1st.....	1240	740	923	856	1053	1009	1025
June 15th.....	1238	896	964	918	1095	1072	1080
July 1st.....	1280	840	947	964	1118	1081	1088
July 15th.....	1284	877	958	960	1147	1084	1092
Aug. 1st.....	1301	885	873	999	1086	1095	1093
Aug. 15th.....	1298	890	871	993	1072	1085	1094
Sept. 1st.....	1101	783	646	843	909	941	1022
Sept. 15th.....	1096	691	468	677	747	739	783
Oct. 1st.....	670	329	267	413	411	380	477
Oct. 15th.....	669	262	233	396	329	232	336
Oct. 31st.....	307	212	207	210	193	158	192

TABLE NO. 2
CLASSIFICATION OF FOREST FIRES
By Month

Month	1946		1945		1944		1943		1942		1941		1940	
	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
March.....	43	2.4	15	1.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April.....	140	8.3	134	13.8	128	11.2	15	2.4	286	23.3	85	6.7	103	10.2
May.....	248	14.2	182	18.8	352	30.8	188	30.7	102	8.3	398	31.5	122	12.0
June.....	298	17.3	121	12.7	112	8.8	33	5.2	137	11.4	273	21.6	112	11.0
July.....	404	23.2	160	16.5	253	20.2	96	15.3	235	19.3	331	26.2	227	22.4
August.....	404	23.2	318	32.9	233	23.9	86	13.7	287	23.4	124	9.9	282	27.8
September.....	117	6.7	26	2.6	16	1.4	20	3.2	61	4.9	52	4.1	108	10.7
October.....	83	4.7	9	.9	37	3.2	186	29.5	116	9.4	2	.....	60	5.9
November.....	2	.....	1	.....	6	0.5	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	1739	100.0	966	100.0	1137	100.0	624	100.0	1224	100.0	1265	100.0	1014	100.0

TABLE No. 3
CLASSIFICATION OF FOREST FIRES
By Origin

Origin	1946		1945		1944		1943		1942		1941		1940	
	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
Settlers.....	80	4.6	44	4.5	96	8.4	55	8.8	114	9.3	103	8.2	64	6.3
Camper.....	481	28.0	289	29.9	247	21.7	187	29.9	296	24.4	271	21.4	339	33.4
Railways.....	249	15.0	163	16.8	218	19.8	82	13.2	143	11.6	81	6.4	24	2.4
Lightning.....	303	18.0	121	12.6	185	16.2	100	16.0	195	15.9	278	22.0	212	20.9
Logging Operations.....	68	3.0	32	3.4	37	3.2	26	4.2	34	2.8	45	3.6	23	2.3
Mining Operations.....	11	0.6	3	0.3	1	.....	3	0.5	3	.....	2	.....	5	0.5
Smokers.....	383	23.0	231	23.9	243	21.3	132	21.3	243	19.8	219	17.3	179	17.6
Road Construction.....	21	1.0	4	0.4	4	0.3	5	0.8	8	0.6	20	1.6	12	1.2
Incendiary.....	31	1.7	8	0.8	23	2.0	4	0.6	13	1.0	23	1.8	34	3.3
Prospectors.....	2	0.1	3	0.3	2	0.1	1	0.1	3	0.3	3	0.2	2	0.2
Miscellaneous.....	68	3.0	36	3.7	55	4.8	25	4.0	56	4.6	60	4.8	30	3.0
Unknown.....	42	2.0	32	3.4	26	2.2	4	0.6	116	9.5	160	12.7	90	8.9
Totals.....	1739	100.0	966	100.0	1137	100.0	624	100.0	1224	100.0	1265	100.0	1014	100.0

TABLE No. 4
CLASSIFICATION OF FOREST FIRES
By Size

Size	1946		1945		1944		1943		1942		1941		1940	
	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
¼ Acre and under.....	490	28.3	211	21.8	241	22.1	155	24.8	276	22.5	278	22.0	224	22.1
Over ¼ to 5 acres.....	784	45.0	457	47.4	519	45.6	237	37.9	487	39.7	506	40.0	441	43.5
Over 5 to 10 acres.....	129	7.4	75	7.7	93	8.3	58	9.2	97	7.9	94	7.4	99	9.7
Over 10 to 100 acres.....	233	13.5	159	16.6	211	18.5	108	17.4	244	19.9	235	18.6	170	16.8
Over 100 to 500 acres.....	78	4.5	43	4.4	47	3.4	41	6.5	86	7.2	89	7.0	56	5.5
Over 500 to 1000 acres.....	13	0.7	11	1.1	7	0.6	15	2.5	20	1.6	23	1.8	10	1.0
Over 1000 to 10,000 acres.....	12	0.6	10	1.0	17	1.4	10	1.7	13	1.2	32	2.5	10	1.0
Over 10,000 acres.....	.....	.....	.....	.....	2	0.1	.....	.....	1	.....	8	0.7	4	0.4
Totals.....	1739	100.0	966	100.0	1137	100.0	624	100.0	1224	100.0	1265	100.0	1014	100.0

TABLE No. 5
CLASSIFICATION OF AREA BURNED OVER—1946
By Month

District	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Total
	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres
Sioux Lookout.....			196	6,938	9	411	131			7,685
Kenora.....		145	8,061	539	706	1,191	858	1		11,501
Fort Frances.....		40	18	147	538	1,921	138			2,802
Port Arthur.....		200	520	9,879	824	127	30	5		11,585
Geraldton.....			12	621	1,052	13	3	1		1,702
Kapuskasing.....			17	25	6	12	120			180
Cochrane.....	6	19	1,174	1,817	50	472	3	18		3,559
Sault Ste. Marie.....	198	325	284	1,414	326	3,828	2	325		6,702
Sudbury.....	124	872	1,343	2,406	3,166	949	163	639		9,662
Chapleau.....			15	44	28			6		93
Gogama.....	3	3	4	4		1		1		16
North Bay.....		381	763	1,462	49	415	5	297		3,372
Parry Sound.....	3	78	211	15	12,195	1,341	52	408		14,303
Algonquin.....	25	12	303	18	13	184	8	597		1,160
Tweed.....	62	209	159	9	1,772	223	7	6		2,447
Total.....	421	2,284	13,080	25,338	20,734	11,088	1,520	2,304		76,769

FOREST FIRES IN ONTARIO
FROM 1930 TO 1946

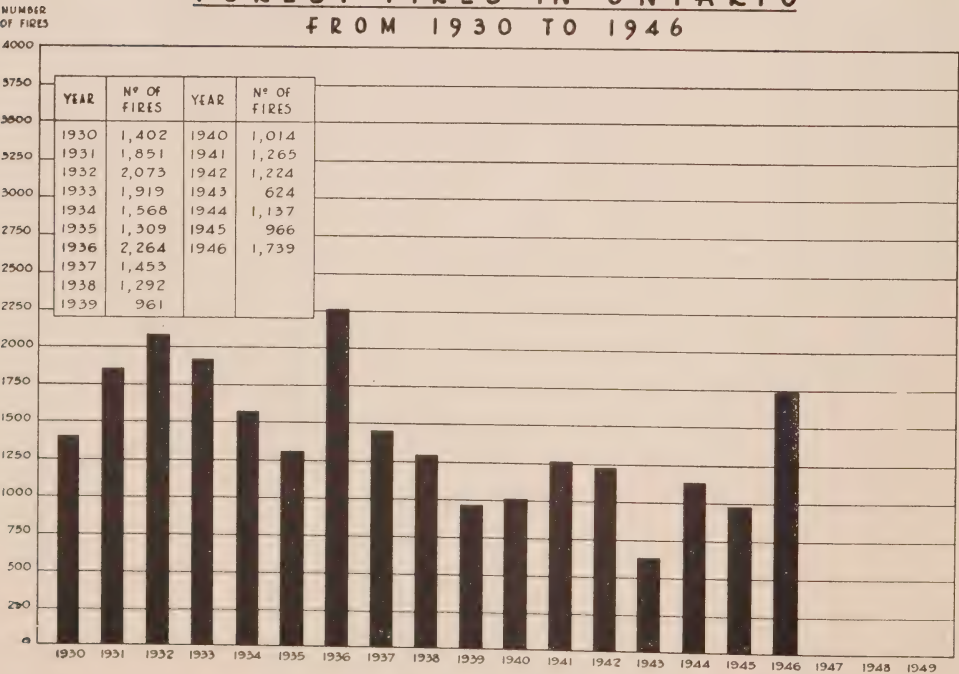


TABLE No. 6
CLASSIFICATION OF AREA BURNED OVER—1946
By Origin

Districts	Settlers Acres	Campers Acres	Railways Acres	Lightning Acres	Logging Acres	Mining Acres	Smokers Acres	Road Con- struction Acres	Incen- dary Acres	Pros- pectors Acres	Miscel- laneous Acres	Un- known Acres	Total Acres
Sioux Lookout.....	.....	40	3	3,330	3,365	231	39	407	.....	.....	22	248	7,685
Kenora.....	744	1,236	8,043	792	13	.....	665	.....	8	.....	.....	.....	11,501
Fort Frances.....	149	31	5	2,125	.....	.....	486	.....	.....	.....	.....	6	2,802
Port Arthur.....	25	364	16	9,476	1,198	.....	155	347	.....	4	.....	.....	11,585
Geraldton.....	.....	6	1	7	565	5	991	.....	.....	.....	104	23	1,702
Kapuskasing.....	10	3	.....	.....	124	6	37	.....	.....	.....	.....	.....	180
Cochrane.....	653	725	16	.....	993	1	936	1	62	.....	172	.....	3,559
Sault Ste. Marie.....	250	459	168	1,044	505	.....	3,840	.....	23	.....	81	332	6,702
Sudbury.....	200	4,800	501	131	18	10	3,767	3	210	.....	21	1	9,662
Chapleau.....	.....	3	11	28	38	.....	5	8	.....	.....	.....	.....	93
Gogama.....	.....	1	2	2	.....	2	6	.....	.....	.....	3	.....	16
North Bay.....	359	368	11	1,744	226	1	492	.....	1	.....	121	49	3,372
Parry Sound.....	156	12,783	435	157	5	.....	432	.....	186	.....	148	1	14,303
Algonquin.....	3	693	69	206	3	.....	183	.....	.....	.....	.....	3	1,160
Tweed.....	128	386	125	1,588	32	.....	75	107	.....	.....	1	5	2,447
Totals.....	2,677	21,898	9,406	20,630	7,085	256	12,109	873	490	4	673	668	76,769

TABLE No. 7
CLASSIFICATION OF FOREST AREAS BURNED OVER—1946
By Forest Type

Districts	No. of Fires	1C Mature Growth		2C Second Growth		3C Young Growth		4 Slash Not re-stocking	5 Old Burn Not re-stocking	6 Muskeg	7 Barren	8 Grass	Total (Acres)
		Coni-ferous	Hard-wood	Coni-ferous	Hard-wood	Coni-ferous	Hard-wood						
Sioux Lookout.....	91	2,936	504	265	20	3,016	13	424	485	17	2	3	7,685
Kenora.....	160	2,663	509	1,971	8	3,587	666	1,373	611	8	63	42	11,501
Fort Frances.....	66	411	.....	525	.....	262	571	432	72	360	52	117	2,802
Port Arthur.....	102	2,676	9	176	17	6,439	46	1,319	187	423	6	287	11,585
Geraldton.....	49	5	4	51	1	4	4	907	707	1	2	16	1,702
Kapuskasing.....	18	13	.....	3	.....	.....	.....	138	11	.....	.....	15	180
Cochrane.....	140	150	336	16	.....	458	26	1,476	258	2	36	801	3,559
Sault Ste. Marie.....	142	51	350	66	64	40	122	4,793	522	16	196	482	6,702
Sudbury.....	275	38	21	646	238	663	745	891	3,158	339	1,343	1,580	9,662
Chapleau.....	16	25	4	5	16	5	.....	29	.....	.....	.....	9	93
Gogama.....	24	1	.....	2	.....	.....	1	4	.....	1	.....	5	16
North Bay.....	108	91	24	1,135	457	173	169	643	354	28	3	295	3,372
Parry Sound.....	292	50	152	1,897	797	338	2,655	223	2,138	2,695	2,022	1,336	14,303
Algonquin.....	85	66	282	208	70	27	382	5	1	1	.....	118	1,160
Tweed.....	171	2	.....	274	452	175	633	70	43	.....	560	238	2,447
Totals.....	1,739	9,178	2,195	7,240	2,140	15,187	6,033	12,727	8,547	3,891	4,287	5,344	76,769
1945—Totals.....	966	4,608	605	2,690	1,398	4,882	4,648	5,894	9,916	1,774	4,791	7,304	48,510
1944—Totals.....	1,137	9,981	3,255	50,564	9,565	9,158	10,546	47,849	14,043	2,816	6,125	4,989	168,891
1943—Totals.....	624	3,968	3,100	3,213	4,624	7,824	12,211	8,450	5,746	181	654	2,846	52,817
1942—Totals.....	1,224	32,157	2,083	14,336	4,010	7,313	9,171	8,993	24,164	2,172	3,361	5,956	113,716
1941—Totals.....	1,265	221,362	50,793	33,035	20,702	55,690	22,341	150,422	86,837	10,469	5,257	9,639	666,547
1940—Totals.....	1,014	11,588	1,809	23,130	5,678	29,661	6,719	17,574	20,354	1,346	903	2,852	121,614

TABLE NO. 8
CLASSIFICATION OF LAND BURNED OVER—1946
By Ownership

District	Crown Land	Private Land	Totals	
	Area in Acres	Area in Acres	No. of Fires	Area in Acres
Sioux Lookout.....	7,376	309	91	7,685
Kenora.....	9,383	2,118	160	11,501
Fort Frances.....	2,582	220	66	2,802
Port Arthur.....	878	10,707	102	11,585
Geraldton.....	1	1,701	49	1,702
Kapuskasing.....	142	38	18	180
Cochrane.....	1,988	1,571	140	3,559
Sault Ste. Marie.....	5,655	1,047	142	6,702
Sudbury.....	2,432	7,230	275	9,662
Chapleau.....	29	64	16	93
Gogama.....	13	3	24	16
North Bay.....	436	2,936	108	3,372
Parry Sound.....	10,687	3,616	292	14,303
Algonquin.....	1,131	29	85	1,160
Tweed.....	1,923	524	171	2,447
Totals.....	44,656	32,113	1,739	76,769

ACREAGE BURNED BY FOREST FIRES IN ONTARIO
FROM 1930 TO 1946

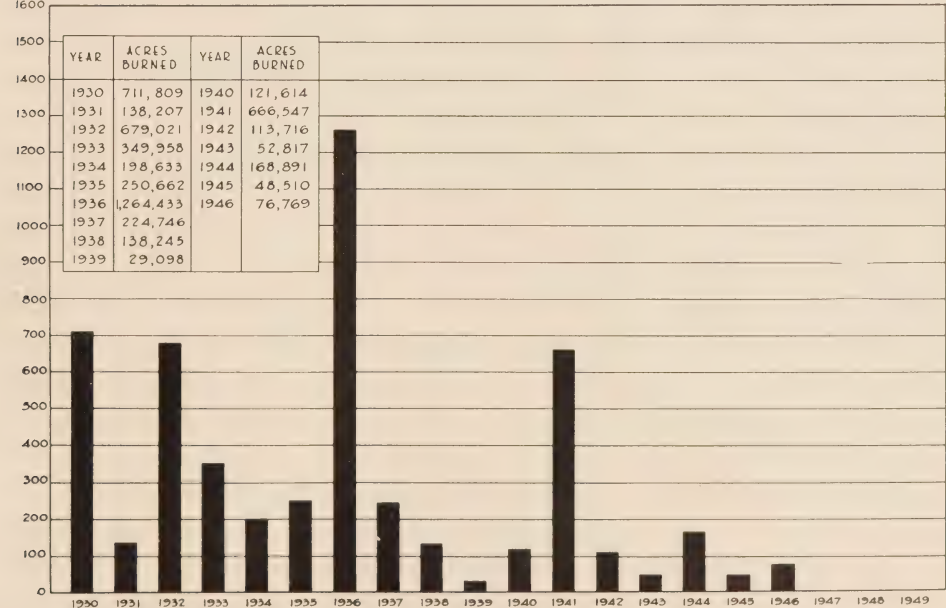


TABLE No. 9
MAJOR EQUIPMENT PURCHASED AND IN USE

	Portable Hand Pumps		Fire Fighting Units		Fire Fighting Hose (in feet)		Tents		Blankets (pairs)		Canoes		Motor Boats		Auto Trucks		Rail-way Motor Cars		Veloci-pedes		Out-board Motors		Binoc-ulars	
	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use
Kenora.....	45	193	...	71	5500	208250	6	97	50	1048	4	83	3	8	3	11	...	1	...	...	7	41	18	29
Sioux Lookout...	25	351	2	98	20000	293100	...	128	70	1232½	9	109	3	10	3	6	...	5	...	10	5	27	2	4
Fort Frances....	1	69	2	36	9000	112400	6	48	50	422	8	57	2	3	3	6	...	1	...	1	10	36	1	12
Port Arthur.....	1	268	2	92	6000	235600	33	130	257	1538	16	71	...	2	7	18	...	4	...	...	10	29	2	10
Geraldton.....	...	386	...	63	20000	177600	19	118	175	644	11	55	...	2	1	6	...	4	...	...	2	17	3	5
Kapuskasing.....	...	359	...	38	3500	86900	1	65	105	476	18	56	...	...	2	11	...	8	...	17	2	15	8	22
Cochrane.....	...	608	...	52	27500	120000	3	44	24	658	16	64	1	5	4	20	...	7	...	13	9	24	2	7
Sault Ste. Marie.	1	335	2	61	20500	165300	5	154	110	1334	15	96	...	1	5	15	...	4	...	2	9	24	6	24
Sudbury.....	6	166	3	18	11500	100750	10	121	724	780	4	75	...	3	5	16	...	2	...	1	9	13	3	18
North Bay.....	12	229	3	51	9000	128150	7	150	...	506	10	88	...	3	9	23	...	1	...	8	16	37	1	23
Gogama.....	60	95	...	28	10500	23050	...	47	...	539	57	3	...	3	2	6	2	6	...	...	3	15	1	8
Chapleau.....	101	...	20	...	52100	...	2	59	...	267	3	58	...	...	2	5	...	...	...	...	1	11	5	14
Parry Sound.....	86	195	4	27	17000	46900	4	29	59½	401½	6	50	1	9	7	19	...	...	...	5	9	15	8	12
Algonquin.....	1	172	...	26	8000	77400	20	79	16½	940	8	74	...	4	2	7	...	6	...	2	1	21	1	13
Trent.....	...	54	...	10	12000	13000	...	...	4	79	...	12	...	...	7	8	...	...	...	...	10	...	6	6
Quinte.....	50	208	...	11	2500	16700	10	28	62	279	...	24	...	1	5	10	1	1	...	...	5	19	3	15
Rideau.....	...	1	...	...	5000	...	...	1	...	...	1	1	...	1	1	3	...	...	...	...	...	...	2	2
Lake Simcoe.....	...	14	...	...	...	...	...	...	...	14½	1	1	...	...	2	2	...	...	...	...	...	...	...	...
Lake Huron.....	...	...	...	...	5000	...	...	2	2½	4½	1	1	...	...	5	5	...	...	...	...	...	...	...	...
Lake Erie.....	...	...	...	1	3000	3600	...	3	...	2	...	...	...	...	2	1	...	...	...	...	...	2	...	1
Western Region..	...	89	...	9	...	23000	...	...	...	500	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mid-West'n Reg.	...	25	...	6	...	12000	...	4	...	60	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Northern Region.	...	100	...	7	...	10000	...	...	...	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Central Region..	...	111	...	...	...	...	...	10	...	208	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ranger School..	...	12	2	4	...	6000	...	...	...	511	12	12	...	...	...	2	...	...	...	...	...	...	...	...
Head Office.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals.....	288	4141	20	729	195500	1921800	126	1321	1705	12464	143	1044	10	57	73	201	3	47	...	61	98	363	66	229

TABLE No. 10
STATEMENT OF TRAVEL PERMITS ISSUED

District	1946		1945		1944		1943		1942		1941		1940	
	Permits	Persons	Permits	Persons	Permits	Persons	Permits	Persons	Permits	Persons	Permits	Persons	Permits	Persons
Sioux Lookout	1,549	4,543	570	1,642	510	1,923	373	1,278	662	2,225	1,107	3,175	1,185	3,796
Kenora	1,062	4,295	834	3,119	541	2,427	493	1,298	50	178	68	234	66	269
Fort Frances	1,428	11,930	312	1,639	494	1,463	135	506	267	861	381	1,377	254	1,078
Port Arthur	9	14	2	2	5	5	40	60	12					
Geraldton	96	192	45	103	43	92	51	113	100	222	84	155	55	113
Kapuskasing	3,106	15,228	3,681	16,698	1,472	6,535	1,026	4,974	1,012	4,502	1,091	3,549	1,045	3,060
Cochrane	3,341	11,223	1,843	6,027	1,087	3,680	926	2,970	1,478	4,674	2,707	8,402	1,982	6,320
Sault Ste. Marie	1,819	4,992			1,077	3,191	897	2,843	1,270	3,908	1,482	4,848	1,524	4,990
Sudbury	434	1,583		4,544										
Chapleau	531	1,833			1,851	6,399	1,543	5,505	2,438	4,919	3,128	10,677	3,787	13,066
Gogama	3,941	13,280												
North Bay														
Parry Sound														
Algonquin	18,478	43,078	9,569	29,804	6,430	15,854	5,520	9,020	1,069	3,224	1,305	3,898	264	658
Tweed														
Totals	35,794	112,191	20,393	70,085	13,510	41,569	11,004	28,567	8,358	24,725	11,353	36,315	10,162	33,350

TABLE No. 11
STATEMENT OF WORK PERMITS ISSUED 1946-47

District	Mining Operations		Woods Operations		Miscellaneous Operations		Totals	
	No. of Permits	Men Engaged	No. of Permits	Men Engaged	No. of Permits	Men Engaged	No. of Permits	Men Engaged
Sioux Lookout.....	287	1,750	48	2,073	13	211	348	4,034
Kenora.....	25	147	87	1,417	13	56	125	1,620
Fort Frances.....	21	97	22	917			43	1,014
Port Arthur.....	87	390	293	3,457	12	540	392	4,387
Geraldton.....	85	392	78	3,143	23	2,918	186	8,453
Kapuskasing.....	10	55	141	4,991			151	5,046
Cochrane.....	524	2,686	344	16,667	14	293	882	19,646
Sault Ste. Marie.....	55	776	148	4,126	4	20	207	4,922
Sudbury.....	50	263	128	1,890			178	2,153
Chapleau.....	18	107	41	5,800	5	37	64	5,944
Gogama.....	95	601	44	1,361	1	7	140	1,969
North Bay.....	250	1,336	200	1,958			450	3,294
Parry Sound.....	6	41	88	1,600			94	1,641
Algonquin.....	2	6	78	1,346	8	310	88	1,662
Tweed.....	17	90	131	1,471			148	1,561
Totals.....	1,532	8,737	1,871	54,217	93	4,392	3,496	67,346
1945-1946.....	1,209	6,611	1,520	39,496	70	1,173	2,799	47,280
1944-1945.....	1,047	4,702	915	29,047	211	1,178	2,173	34,927
1943-1944.....	750	3,507	990	29,292	532	1,641	2,272	34,440
1942-1943.....	761	3,633	868	34,463	197	2,098	1,826	40,194
1941-1942.....	1,285	6,048	834	35,043	132	4,988	2,251	46,079
1940-1941.....	1,760	8,817	816	34,934	108	2,975	2,684	46,726

TABLE NO. 12
STATEMENT OF FIRE PERMITS ISSUED

District	Number of Permits						
	1946	1945	1944	1943	1942	1941	1940
Sioux Lookout.....	217	77	71	137	123	232	215
Kenora.....	671	488	447	530	470	376	791
Fort Frances.....	136	140	90	75	195	203	300
Port Arthur.....	1,246	631	614	554	529	563	1,671
Geraldton.....	289	76	99	60	101		
Kapuskasing.....	1,174	635	226	261	1,677	947	2,757
Cochrane.....	1,944	1,676	1,258	1,241	2,555	2,275	3,397
Sault Ste. Marie.....	248	984	117	154	217	288	361
Sudbury.....	1,053	627	998	1,052	979	886	1,436
Chapleau.....	70						
Gogama.....	102						
North Bay.....	1,004	74	784	834	1,129	1,458	2,885
Parry Sound.....	442	205	210	174	300	306	303
Algonquin.....	125	69	88	42	74	124	178
Tweed.....	219	82	104	128	193	175	228
Totals.....	8,940	5,764	5,106	5,242	8,542	7,833	14,522

TABLE No. 13
MEANS OF FIRE DETECTION—1946

District	No. of fires detected by				Total No. of Fires
	Air Service	Towers	Rangers	Public	
Sioux Lookout.....	29	26	14	22	91
Kenora.....	47	43	25	45	160
Fort Frances.....	18	20	7	21	66
Port Arthur.....	17	33	13	39	102
Geraldton.....	12	10	5	22	49
Kapuskasing.....	.....	8	3	7	18
Cochrane.....	10	58	43	29	140
Sault Ste. Marie.....	15	27	28	72	142
Sudbury.....	11	113	40	111	275
Chapleau.....	2	7	1	6	16
Gogama.....	3	6	2	13	24
North Bay.....	6	30	32	40	108
Parry Sound.....	18	78	32	164	292
Algonquin.....	9	18	10	48	85
Tweed.....	.....	138	5	28	171
Totals.....	197 11.3%	615 35.3%	260 15.0%	667 38.4%	1,739 100%

TABLE No. 14
FIRE DAMAGE TABLE—1946

District	Sawlogs		Pulpwood		Ties		Fuelwood		Cedar Posts		Cedar Poles		Protection Charges		Total Timber Damage	
	F.B.M.	\$	Cords	\$	No.	\$	Cords	\$	No.	\$	No.	\$	Mature Timber	Young Growth	\$	\$
Sioux Lookout...	7,800	19.50	3,130	3,321.00	...	...	2,767	1,101.75	...	...	...	...	4,909.75	20.41	9,372.41	8,600.00
Kenora.....	117,400	290.40	185	254.10	100	10.00	3,389	1,257.25	100	2.00	28	21.00	5,153.75	4,507.00	11,495.50	12,842.50
Fort Frances....	114,000	285.00	378	177.90	500	50.00	...	...	...	...	...	...	926.20	15.40	1,454.50	500.00
Port Arthur....	13,082,500	30,900.25	3,807	5,070.80	127	12.70	2,292	1,030.95	...	...	...	...	4,255.89	705.07	41,975.66	47,678.00
Geraldton.....	...	...	100	140.00	...	...	356	146.65	...	...	...	...	510.92	2.59	800.16	63,977.18
Kapuskasing....	...	...	71	86.10	50	5.00	125	75.00	...	...	...	...	15.85	...	181.95	18,279.25
Cochrane.....	4,825	10.06	420	507.20	...	...	1,257	802.80	...	...	...	...	13.11	100.27	1,433.44	12,048.80
Sault Ste. Marie	48,000	115.00	131	140.40	112	11.20	350	175.00	...	...	600	150.00	600.80	...	1,192.40	7,504.00
Sudbury.....	120,100	298.05	221	118.90	...	...	1,203	438.45	115	2.30	...	...	494.29	262.06	1,614.05	7,896.50
Chapleau.....	20,975	56.44	185	258.30	...	...	67	45.75	...	...	...	...	...	...	360.49	...
Gogama.....	300	2.40	27	31.10	...	...	...	...	...	...	...	...	2.18	.58	36.26	10,550.00
North Bay.....	180,100	439.95	565	391.00	...	...	5,507	1,496.25	...	...	...	...	711.22	87.81	3,126.23	43,650.00
Parry Sound....	86,800	181.80	2,725	1,121.50	100	10.00	2,989	1,494.50	...	...	...	...	1,800.91	954.33	5,563.04	38,273.70
Algonquin.....	114,746	334.51	5	2.00	...	...	196	145.50	...	...	...	...	402.68	84.03	968.72	50.00
Tweed.....	229,800	2,101.75	129	176.40	...	...	699	368.80	...	...	...	...	76.05	526.42	3,249.42	1,200.00
Totals.....	14,127,346	35,035.11	12,079	11,796.70	989	98.90	21,197	8,578.65	215	4.30	628	171.00	19,873.60	7,265.97	82,824.23	273,049.93



BEAUTIFUL COTTAGE SITES ARE AVAILABLE ON CROWN LANDS.

DIVISION OF LAND AND RECREATIONAL AREAS

The volume of work completed in connection with certain phases of land administration increased during the last fiscal year, as will be seen by the tables and graphs forming part of this Section. This is due to more advanced methods of administration, a properly trained staff, and improved inspection facilities. More rapid handling of current transactions and a continued increase in the number of long outstanding cases brought to a satisfactory conclusion have been gratifying.

Summer Resort Lands

Sales of summer resort lands, for both private and commercial use, increased over an all-time high during the fiscal year 1945-46, and although the number of patents issued also increased, the increase would have been considerably greater had it been possible to secure the services of Ontario Land Surveyors to do the necessary survey work.

Agricultural and Allied Uses

An increase in the number of transactions completed involving lands for special use, agricultural lands in sale townships, and agricultural lands in free grant townships, collectively, is shown. It was expected that the sale of land for this purpose would decrease, in that it was assumed that the demand would fall off, due to continued favorable economic conditions. The large percentage of sales and patents completed, especially under the special use section, is the result directly of improved methods of administration, inspection facilities, and more efficiently trained staff, as stated above.

Provincial Parks

There was no change made in the status of Provincial Parks, of which there are six, as follows:

Algonquin.....	2,741 Sq. Miles
Quetico.....	1,720 Sq. Miles
Rondeau.....	8 Sq. Miles
Lake Superior.....	540 Sq. Miles
Sibley.....	63 Sq. Miles
Ipperwash Beach.....	109 Acres

Veterans' Lands

An agreement was concluded between the Dominion and Provincial Governments, which became effective on April 10th, 1966, and which provides for the establishment of qualified veterans on Crown lands in Ontario. The agreement is generally known as "The Ontario Dominion-Provincial Agreement" and it was made under and by virtue of Section 35 of the Veterans' Land Act (Dominion) 1942. The Provincial Government is responsible under the agreement for the allocation of Provincial lands, providing inspection reports and extending all services ordinarily provided for persons other than veterans. At the close of the first year of operation, agreements for sale and licenses of occupation, completed, total nineteen. Twelve applications are pending, and two were cancelled. These transactions are summarized in the table included herein. It is expected that the number of cases which will be referred to this Department for consideration during the ensuing year will be considerably increased. The opportunities available to qualified veterans have been more fully advertised, resulting in steadily increasing interest to participate, particularly due to the fact that the

assistance granted is not repayable; payment of purchase price of land in the case of first-land application is waived by the Province, and in the case of the veteran, who has actively served in the armed services overseas, or one full year in Canada, and has resumed residence and settlement duties, he is absolved from payment of all amounts of principal and interest which may be owing in respect of land purchase price and improvement charges.

Tourist Outfitters' Camps

A prosperous tourist trade during the 1945 season, exceeding the pre-war volume, served to stimulate the growing interest in post-war expansion. Whereas the erection of 149 new camps was authorized the previous year, over 400 applications for permits were considered in 1946, of which 328 were granted as at March 31st, 1947. There was also much activity in the rehabilitation and expansion of established camps. The acute shortage of basic building materials did, however, retard the anticipated expansion in the industry, as only 171 new camps were completed and licensed to operate. 856 current licenses were issued, an annual increase of 35%, including 51 camps which had not operated during the war. 111 licenses were issued at a non-resident fee of \$25.00 each, and 745 at a resident fee of \$10.00 each. (See table).

STATISTICAL TABLES AND GRAPHS

Transactions for the fiscal year ending March 31, 1947.

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TABLE No. 1
Summary of transactions under
THE ONTARIO DOMINION-PROVINCIAL AGREEMENT

First lands.....	8
Conversion from former sales or locations.....	10
Licence of Occupation.....	1
Awaiting survey only.....	6
Before the Department for consideration.....	6
Applications cancelled.....	2
A Total of.....	33

TABLE No. 2
TOURIST OUTFITTERS' CAMP LICENCES
Summary by Districts
— 1946 —

District	Licensed Camps
Algoma.....	120
Cochrane.....	11
Kenora.....	196
Manitoulin.....	73
Nipissing.....	120
Parry Sound.....	164
Patricia.....	5
Rainy River.....	35
Renfrew.....	15
Sudbury.....	78
Timiskaming.....	12
Thunder Bay.....	27

TABLE No. 3
AGRICULTURAL LAND
Transactions for the fiscal year ending March 31, 1947

Administrative District	District Forester	Sales		Cancellations		Assignments		Patents	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres
Algonquin.....	G. H. R. Phillips	16	1282.00	3	187.00	2	200.00	20	2046.92
Cochrane.....	A. S. Bray....	32	2596.42	71	5720.58	62	6190.09	84	9145.05
Fort Frances...	G. Delahey....	29	2781.50	14	490.05	4	393.50	16	1333.38
Geraldton.....	U. W. Fiskar..			1	51.00	3	53.25	1	50.30
Kapuskasing...	E. L. Ward....	20	1514.42	105	9109.45	38	3484.72	51	5424.51
Kenora.....	G. F. Meyer....	20	2132.81	13	697.87	7	983.75	11	955.03
Main Office....	Main Office...							3	253.50
North Bay.....	T. E. Sider....	26	2583.41	58	5474.06	37	3717.28	50	5272.75
Parry Sound...	R. L. Snow....	8	764.00	1	1.00			14	1417.00
Port Arthur....	R. Boulton...	36	4362.70	40	4072.75	20	2523.00	50	6862.56
Sault Ste. Marie	A. Leman.....	1	136.50	2	223.50	2	174.50	10	883.23
Sioux Lookout..	K. Acheson...					1	79.75		
Sudbury.....	T. Thorpe....	48	5607.79	25	2895.59	35	3692.64	46	5233.99
Tweed.....	A. Crealock...	66	5995.67	5	548.00	11	1309.50	77	13311.47
Totals.....		303	29757.22	338	29470.85	222	22801.99	433	52189.69

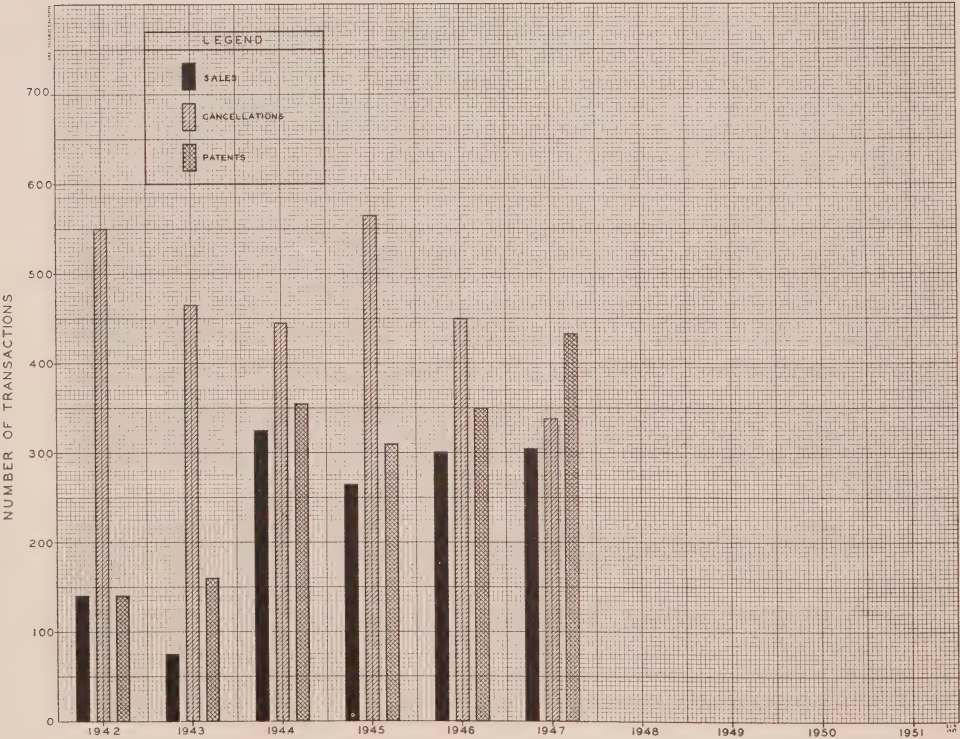


Fig. 1—AGRICULTURAL LAND IN SALE TOWNSHIPS.

TABLE NO. 4
FREE GRANT LAND (including soldiers' land)
Transactions for the fiscal year ending March 31, 1947

Administrative District	District Forester	Locations		Cancellations		Assignments		Patents	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres
Algonquin.....	G. H. R. Phillips	5	462.00	31	3029.99	1	152.00	9	816.31
Cochrane.....	A. S. Bray....	9	711.03	9	943.25	4	384.83	6	501.50
Fort Frances...	G. Delahey...	6	688.62	53	7374.00	12	1864.75	26	3797.00
Kapuskasing...	E. L. Ward....	1	102.00	3	225.50	1	100.00		
Kenora.....	G. F. Meyer...	14	1765.75	39	4914.55	26	3211.35	30	4299.12
Lindsay.....	A. B. Wheatley			2	270.00	1	95.00		
North Bay.....	T. E. Sider....	7	609.00	108	12202.18	11	1079.75	17	1692.72
Parry Sound...	R. L. Snow....	5	493.00	28	3310.71	7	890.50	16	2106.00
Port Arthur...	R. Boulton...	11	1640.50	60	7722.75	23	3361.24	38	5127.46
Sault Ste. Marie	A. Leman.....			1	80.00			1	127.00
Sioux Lookout..	K. Acheson...			1	160.00	3	317.75		
Sudbury.....	T. Thorpe....	10	1319.00	15	1759.59	14	2125.25	23	2972.86
Tweed.....	A. Crealock...	5	453.00	99	9914.00	19	1941.50	2	228.80
Totals.....		73	8243.90	449	51906.52	122	15523.92	168	21668.77

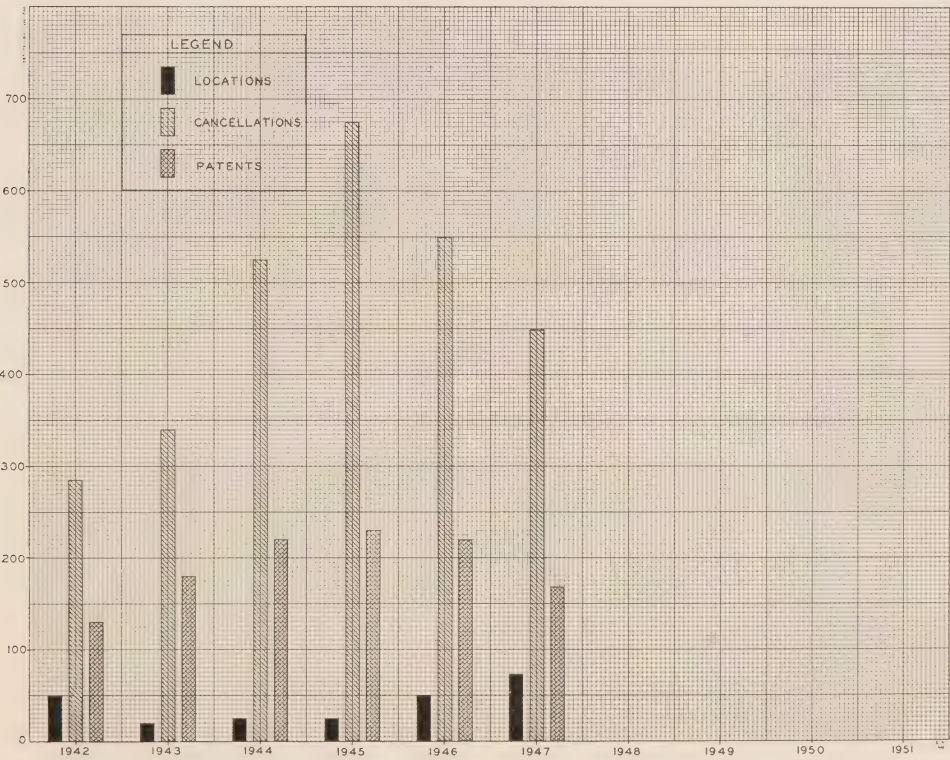


Fig. 2—AGRICULTURAL LAND IN FREE GRANT TOWNSHIPS
(including soldiers' land).

TABLE No. 5
LAND FOR SPECIAL USE
Transactions for the fiscal year ending March 31, 1947

Administrative District	District Forester	Sales		Cancellations		Assignments		Patents	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres
Algonquin.....	G. H. R. Phillips	19	863.02	.....	.....	.....	.....	15	60.59
Cochrane.....	A. S. Bray.....	4	308.05	.....	.....	1	3.59	1	1.00
Chapleau.....	F. J. Dawson..	2	106.17	.....	.....	.....	.....	.....	.....
Fort Frances...	G. Delahey...	8	504.15	.....	.....	.....	.....	3	284.50
Geraldton.....	U. W. Fiskar..	3	149.70	.....	.....	.....	.....	9	5891.78
Kapuskasing...	E. L. Ward...	1	75.00	.....	.....	.....	.....	.....	.....
Kenora.....	G. F. Meyer...	9	246.82	.....	.....	.....	.....	19	398.19
Main Office	Main Office....	28	609.04	.....	.....	.....	.....	23	727.89
North Bay.....	T. E. Sider....	14	788.07	.....	.....	3	121.61	5	176.40
Parry Sound...	R. L. Snow....	17	376.52	.....	.....	.....	.....	11	68.30
Port Arthur....	R. Boulton...	4	3076.80	.....	.....	.....	.....	4	401.26
Sault Ste. Marie	A. Leman.....	7	176.82	.....	.....	.....	.....	10	141.80
Sioux Lookout..	K. Acheson...	8	92.93	.....	.....	1	6.82	1	.23
Sudbury.....	T. Thorpe....	27	1600.13	.....	.....	1	2.03	13	761.70
Tweed.....	A. Crealock...	60	5320.71	.....	.....	.....	.....	31	4359.35
Totals.....	.....	211	14293.96	.....	.....	6	134.05	145	13272.99

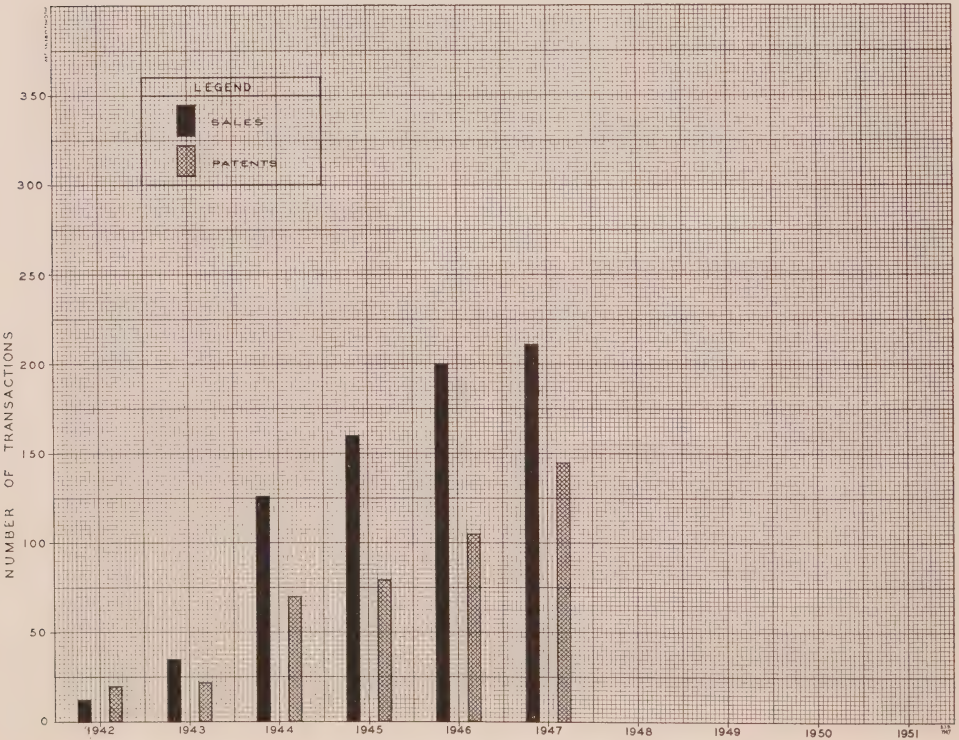


Fig. 3—LANDS FOR SPECIAL USE.

TABLE NO. 6
SUMMER RESORT LANDS
Transactions for the fiscal year ending March 31, 1947

Administrative District	District Forester	Sales		Cancellations		Assignments		Patents	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres
Algonquin.....	G. H. R. Phillips	19	41.44	.....	.....	3	5.30	5	12.44
Cochrane.....	A. S. Bray....	7	8.62	.....	.....	1	0.66	1	.66
Fort Frances...	G. Delahey...	31	121.04	1	0.33	.....	.....	43	206.63
Geraldton.....	U. W. Fiskar...	5	16.48	.....	.....	.....	.....	4	13.42
Gogama.....	J. Taylor.....	2	0.96	.....	.....	.....	.....	.....	.....
Kapuskasing...	E. L. Ward....	5	3.10	.....	.....	1	5.09	.....	.....
Kenora.....	G. F. Meyer...	123	285.99	1	.60	5	8.30	123	306.97
Main Office.....	Main Office...	2	0.81	.....	.....	.....	.....	5	19.52
North Bay.....	T. E. Sider....	96	247.74	1	2.16	6	15.33	44	140.68
Parry Sound....	R. L. Snow...	97	275.90	1	1.3	6	14.10	60	201.97
Port Arthur....	R. Boulton...	37	113.23	.....	.....	.....	.....	36	358.30
Sault Ste. Marie	A. Leman.....	74	237.45	.....	.....	4	9.83	31	86.44
Sioux Lookout..	K. Acheson...	4	15.56	.....	.....	1	3.4	7	29.64
Sudbury.....	T. Thorpe....	114	369.02	1	0.38	7	120.94	88	296.91
Tweed.....	A. Crealock...	51	103.88	1	2.00	3	3.36	49	91.37
Totals.....	.....	666	1841.25	6	6.77	37	186.31	496	1764.95

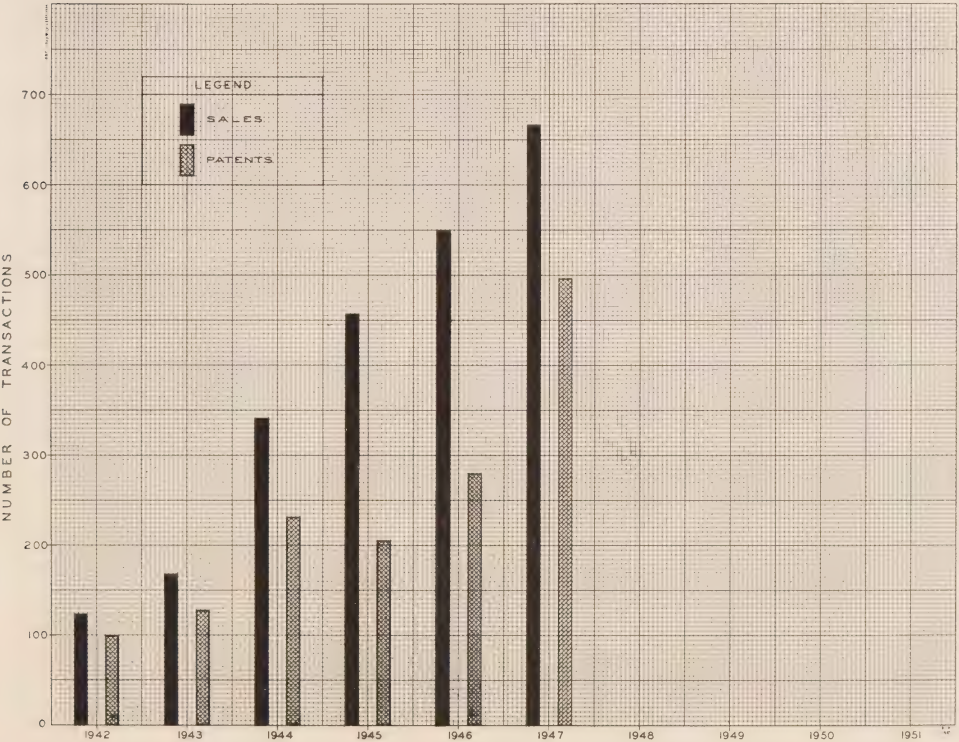


Fig. 4—SUMMER RESORT LANDS.

TABLE NO. 7
CITIES, TOWNS AND TOWNSITES
Transactions for the fiscal year ending March 31, 1947

Administrative District	District Forester	Sales		Cancellations		Assignments		Patents	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres
Algonquin.....	G.H.R. Phillips	1	2.00	.....	.....	2	.65	1	2.00
Cochrane.....	A. S. Bray....	33	29.90	.....	.....	7	1.49	26	13.02
Fort Frances...	G. Delahey....	.....	.....	.....	.....	.....	.....	1	2.10
Geraldton.....	U. W. Fiskar..	18	2.85	.....	.....	1	.17	19	2.71
Gogama.....	J. Taylor.....	23	3.84	.....	.....	1	.88	.....	.....
Kapuskasing...	E. L. Ward....	58	39.52	2	.48	2	.50	14	15.54
Kenora.....	G. F. Meyer...	14	5.88	1	.23	1	.30	11	8.51
Main Office....	Main Office...	18	28.81	.....	.....	.....	.....	27	89.25
North Bay.....	T. E. Sider....	7	5.03	.....	.....	.....	.....	2	.70
Parry Sound...	R. L. Snow....	1	0.25	1	1.00	.....	.....	11	2.55
Port Arthur...	R. Boulton...	7	1.35	.....	.....	1	.13	18	7.62
Sault Ste. Marie	A. Leman.....	33	6.33	.....	.....	.....	.....	22	8.28
Sioux Lookout..	K. Acheson...	28	7.55	1	.22	12	2.53	25	12.42
Sudbury.....	T. Thorpe....	34	4.58	4	0.46	.....	.....	11	10.22
Tweed.....	A. Crealock...	.....	.....	.....	.....	.....	.....	1	.47
Totals.....	.....	275	137.92	9	2.39	27	6.67	249	175.39

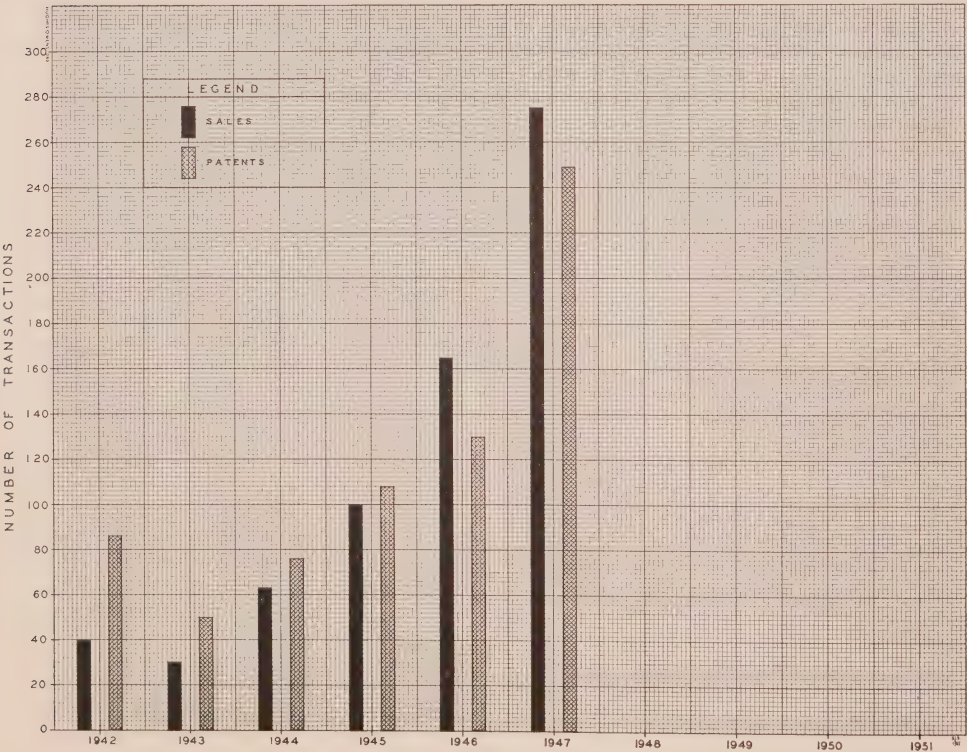


Fig. 5—CITY, TOWN AND TOWNSITE LANDS.

TABLE No. 8
LAND USED PERMITS APRIL 1, 1946—MARCH 31, 1947

Administrative District	Dwelling and Garden		Sawmill Sites		Boathouse Sites		Hunt Camp Sites		Agricultural		Hay Cutting		Trappers Camps		Miscellaneous		Sugar Bush		Department Owned Houses No.
	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	
Algonquin.....	21	61.00	4	58.85	10	3.75	7	7.25	2	24.00					15	9.75	1	10.00	24
Chapleau.....	24	19.10	4	24.50					37	2971.00	20				3	162.00			12
Cochrane.....	14	57.00	14	81.00	10	3.65	1	5.00	20	174.50					2	76.00			
Fort Frances.....	21	10.50	2	37.50	2	.50	4	26.75	1	255.00	1				1	.25			
Geraldton.....	1	50.00	6	49.00					1	16.00									
Gogama.....	25	70.86	3	34.00			3	2.50	9	70.75					2	6.00			4
Kapuskasing.....	1	150.00	7	61.00	1	.50			15	234.00	4				3	7.34			
Kenora.....	4	13.25	3	21.48			2	2.00	2	158.00					8	25.75			
Lindsay.....	2	20.00					4	3.00											
Angus-Midhurst } Orono-St. Williams }																			264
Napanee.....																			
North Bay.....	51	331.50	38	184.32	7	7.05	44	39.50	16	1332.00	6				5	10.00	4	106.00	1
Parry Sound.....	54	95.65	10	46.00	9	4.50	158	149.50	14	188.50	1				10	11.25	3	25.00	3
Pembroke.....	24	62.90	3	21.85	3	1.75	12	10.25	3	70.00					5	1.75	1	10.00	
Port Arthur.....	14	74.30	39	70.00			3	4.00	1	125.00					2	22.00			
Rondeau Park.....	148	74.00													5	1.25			2
Sault Ste. Marie.....	40	54.79	4	10.50			15	13.19	1	84.00					3	3.50	1	20.00	8
Sioux Lookout.....	28	69.00	1	10.00					2	1002.00									12
Sudbury.....	85	368.00	31	217.00	13	5.50	32	33.00	79	6133.25	3				19	80.16			
Tweed.....	13	22.75	3	34.66	1	.50	106	103.50	17	1099.00	3				9	37.75			
Totals.....	570	1604.60	172	961.66	56	27.70	391	399.44	201	13762.50	38				95	823.75	10	171.00	330

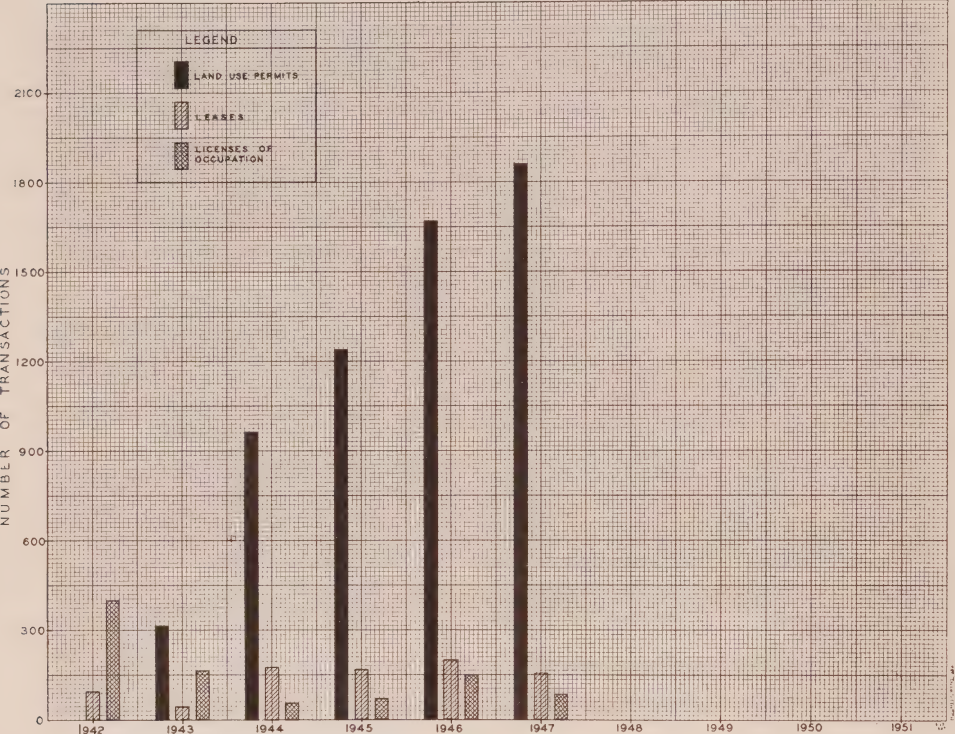


Fig. 6—LAND USE PERMITS, LEASES AND LICENCES OF OCCUPATION ISSUED.

TABLE No. 9

Statement of Patents, etc., issued during the year ending March 31, 1947

Public Land Patents	929	
Free Grant Patents	168	
Patents & Transfers (Town Lots)	249	
Miscellaneous Documents	145	
Releases of Pine	137	
		1628
Crown Leases	8	
Algonquin Park Leases	42	
Bruce Beach Leases	15	
Bruce Beach Renewals	11	
Rondeau Park Leases	71	
Timagami Leases	4	
Water Power Leases	5	
		156
Licences of Occupation	82	
Licences of Occupation (Rondeau)	2	
Licences of Occupation (Algonquin)	2	
		86
Licences of Occupation Cancelled	219	
Crown Leases Cancelled	22	

DIVISION OF LAW

The primary duties of the Division are as indicated in the Administrative Chart.

As a result of the previous Department of Game and Fisheries coming under the administration of the Department of Lands and Forests, as the Division of Fish and Wildlife, the work of the Law Division was considerably increased. The Game and Fisheries Act, 1946, is a revision of the Act which formerly was in effect, and considerable time was necessary in connection with the preparation of the many regulations which are required under the provisions of the Act.

Amendments were made to ten Acts governing the administration of the Department, and The Forest Management Act was created. This Act permits the Minister to require timber operators on Crown land to submit estimated inventories of the timber on the cutting-area respecting age, species, size and type, and management plans concerning the utilization of the timber.

An amendment to The Townsites Act provides that the Crown shall not claim any percentage of land in a subdivision plan of land which has been patented for upwards of five years prior to the time of making the subdivision.

An amendment to The Crown Timber Act permits the Minister, with the approval of the Lieutenant-Governor in Council, to enter into long-term timber concession agreements concerning all species of timber.

An amendment to The Cullers Act allows the Lieutenant-Governor in Council to make regulations with respect to standardization of the measurement of timber cut on Crown lands.

An amendment to The Public Lands Act allows the issue of letters patent to the widow of a locatee.

During the year, the policy of dealing with trespass cases, where a person committing a trespass had no authority to cut, by laying a charge of theft of trees under the Criminal Code, was actively followed. In the majority of such charges convictions were made, and it is felt that this policy will reduce unauthorized timber-cutting.

The following is a recapitulation of charges laid under the Criminal Code and for offences against provincial statutes and regulations:

<i>Acts</i>	<i>Charges</i>	<i>Convictions</i>	<i>Acquittals</i>
Game and Fisheries Act.....	1,510	1,433	77
Forest Fires Prevention Act.....	17	14	3
Provincial Parks Act.....	2	2	0
Crown Timber Act.....	1	1	0

During the year one timber concession agreement and two supplementary agreements concerning main agreements previously in force were prepared.

Various field trips were made by the Chief of the Division to District Offices concerning matters requiring legal attention.

PROVINCE OF ONTARIO
PARLIAMENT BUILDINGS, TORONTO
ORGANIZATION CHART
WITH
CHAIN OF RESPONSIBILITY

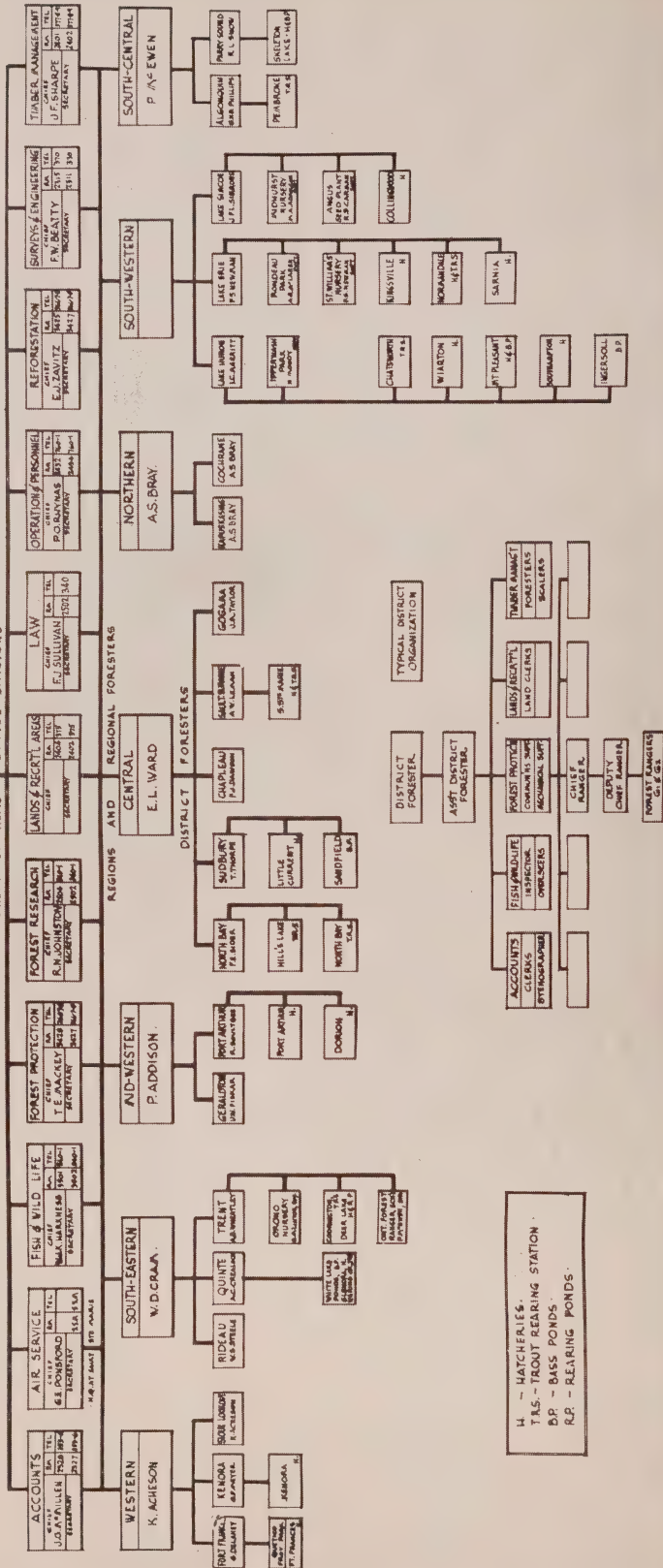
DEPUTY MINISTER	
F.A. ACDUGALL	Room TEL 2309 347-3
SECRETARY	2311 342-3

PERSONNEL OF DEPARTMENT		
	PRIMARY	TOTAL
INSIDE STAFF	176	309
OUTSIDE STAFF	318	778
TOTAL 5	827	1087

REVISED TO 1 JANUARY 1961

NOTE
Unless otherwise
noted all telephone
numbers are local
on Adelaide 1211

...



W. - HATCHERIES.
T.A.S. - TROUT REARING STATION.
B.P. - BASS PONDS.
R.R. - REARING PONDS.

DIVISION OF OPERATION AND PERSONNEL

The termination of hostilities with Germany in May, 1945, and with Japan in August, 1945, initiated the retooling of industry and diverted the flow of personnel from the Armed Forces and industry to other channels. As a result of the processes of reconversion in the personnel and supply fields, the situation, as far as the Department is concerned, has been greatly eased. Urgently needed supplies have been a little more readily obtained and in somewhat greater volume, but still do not entirely meet our requirements.

For some time there was considerable difficulty in obtaining suitable qualified stenographic personnel, and desks and other office furniture are still most difficult to obtain. As younger people return to pre-war perspectives and as adolescents who have been obtaining the wages usually paid to adults are eliminated from industry, this situation may be considerably bettered. It is anticipated, too, that the training programmes of the Canadian Vocational schools will be a means of providing numbers of properly trained personnel.

During this year, eight new administrative districts were created, with the result that the greater part of the Province south of the Albany River is now under administrative district organization. The creation of these new districts will provide more effective administration.

On November 28th, 1946, the Honourable H. R. Scott was appointed Minister of the Department in succession to the Honourable W. G. Thompson, who had resigned.

In April, the Department of Game and Fisheries was amalgamated with the Department of Lands and Forests, and a new Departmental Division known as the Division of Fish and Wildlife was created. Certain functions of Fish and Wildlife Management both at Head Office and in the field were centralized in this Division. Other administrative functions of the Department of Game and Fisheries have been allocated to the appropriate Divisions already established in this Department.

The staff of the former Department of Game and Fisheries was redistributed, the majority of them being allocated to the Division of Fish and Wildlife and the remainder to the other Divisions of the Department. The field staff became a part of the various administrative district organizations. By this process, the Department of Lands and Forests became responsible for the administration of the natural resources within the Province of Ontario with the single exception of those within the purview of the Department of Mines. Changes effected are dealt with in that part of this annual report devoted to the Division of Fish and Wildlife.

A Forest Resources Inventory organization was created in the Division of Timber Management. The details of this organization appear in the section of this report devoted to that Division.

Due to over-crowding at Head Office where the per capita space is at an absolute minimum, the Aerial Surveys section of the Division of Surveys and Engineering was transferred from the Parliament Buildings to the DeHavilland plant on Sheppard Avenue, where it continues to function as a section of that Division.

The organization as of the end of the fiscal year, therefore, is as follows:

HEAD OFFICE, TORONTO

Minister—HON. W. G. THOMPSON (to November 28, 1946)

HON. H. R. SCOTT (from November 28, 1946)

Deputy Minister—F. A. MACDOUGALL

<i>Division</i>	<i>Chief</i>
Accounts.....	J. G. McMillen
Air Service.....	G. E. Ponsford (Sault Ste. Marie)
Fish and Wildlife.....	W. J. K. Harkness
Forest Protection.....	C. R. Mills (to October 31, 1946) T. E. Mackey (from November 1, 1946)
Land and Recreational Areas.....	H. W. Crosbie (to November 2, 1946) W. D. Cram (from March 1, 1947)
Law.....	F. J. Sullivan
Operation and Personnel.....	P. O. Rhynas
Reforestation.....	E. J. Zavitz
Research.....	R. N. Johnston
Surveys and Engineering.....	F. W. Beatty
Timber Management.....	J. F. Sharpe

FIELD OFFICES

REGION	<i>Regional Forester</i>	<i>District</i>	<i>District Forester</i>	<i>District Headquarters</i>
South-Western.....		Lake Erie.....	F. S. Newman...	St. Williams
		Lake Huron.....	I. C. Marritt...	Galt
		Lake Simcoe.....	J. F. L. Simmons.	Maple
South-Eastern.....	W. D. Cram,	Quinte.....	A. Crealock....	Tweed
	Toronto.....	Rideau.....	W. E. Steele....	Kemptville
		Trent.....	A. B. Wheatley..	Lindsay
South-Central.....	P. McEwen,	Algonquin.....	G. H. R. Phillips.	Algonquin
	Dorset.....	Parry Sound....	R. L. Snow....	Parry Sound
Central.....		North Bay.....	F. E. Sider....	North Bay
		Chapleau.....	F. J. Dawson...	Chapleau
		Gogama.....	J. M. Taylor....	Gogama
		Sault Ste. Marie.	A. Leman.....	Sault Ste. Marie
		Sudbury.....	T. Thorpe.....	Sudbury
Northern.....	E. L. Ward,	Kapuskasing....	E. L. Ward....	Kapuskasing
	Kapuskasing..	Cochrane.....	A. S. Bray.....	Cochrane
Mid-Western.....	P. Addison...	Port Arthur....	R. Boulton....	Port Arthur
	Port Arthur..	Geraldton.....	U. W. Fiskar...	Geraldton
Western.....	K. Acheson	Sioux Lookout..	K. Acheson....	Sioux Lookout
	Sioux Lookout.	Kenora.....	G. F. Meyer....	Kenora
		Fort Frances....	G. Delahey....	Fort Frances

DEPARTMENT OF LANDS AND FORESTS

PROVINCE OF ONTARIO

ADMINISTRATIVE DIVISIONS

1947

Hon. H. R. SCOTT, Minister

F. A. MacDOUGALL, Deputy Minister

ACCOUNTS	AIR SERVICE	FISH AND WILDLIFE	FOREST PROTECTION	LAND AND RECREATIONAL AREAS	LAW	OPERATION AND PERSONNEL	REFORESTATION	RESEARCH	SURVEYS AND ENGINEERING	TIMBER MANAGEMENT
J. G. McMillen Chief	G. E. Ponsford Chief	Dr. W. J. K. Harkness Chief	T. E. Mackey Chief	W. D. Cram Chief	F. J. Sullivan Chief	P. O. Rhynas Chief	E. J. Zavitz Chief	R. N. Johnston Chief	F. W. Beatty Chief	J. F. Sharpe Chief
Accounting, for all Divisions. Collection of Departmental accounts. Payment of Departmental expenditures. Administration of Land Tax Act. Preparation of— Budget estimates. Financial reports. Permanent Staff payrolls. Main Office pay lists. Departmental staff salary records. Data for Public Accounts report. Control of— Arrestable Warrant cards. Field Office trust funds. Stamps held in sub-departments. Central securities. Field Office accounting. Budget for main and field offices. Checking of receipts and disbursements. Time of— Fish and Wildlife Licenses. Maintenance of Accounts owing Government for— Timber dues. Ground rent. Fire tax. Land sales. Rents to be Leases. Fees for Licenses of Druggists. Water power leases. Provincial Land Tax. Permit operations. Arrestable warrants. Fish and Wildlife Licenses.	Control of Purchase of— New and used aircraft, engine and aircraft spare parts, mining tools, stock material, engine and technical equipment, tools and oils, and operating base equipment. Drafting of all contracts. Separation of all property purchases for new bases and the location and construction of such bases. Liaison with Department of Transport. Responsibility for employment, conduct and training of staff; operating orders, sub-let and labour relations within the Division. Control of— Arrestable Warrant cards. Field Office trust funds. Stamps held in sub-departments. Central securities. Field Office accounting. Budget for main and field offices. Checking of receipts and disbursements. Time of— Fish and Wildlife Licenses. Maintenance of Accounts owing Government for— Timber dues. Ground rent. Fire tax. Land sales. Rents to be Leases. Fees for Licenses of Druggists. Water power leases. Provincial Land Tax. Permit operations. Arrestable warrants. Fish and Wildlife Licenses.	Preparation of— Construction and fire. Recording and handling returns. Habitat— Management and propagation. Trapping management. Game preserve and special hunting areas—open seasons. Fur farm licenses—records. Fur dealer licenses. Fur production records. Bonuses. Surveys and investigations. Commercial Fisheries— Commercial fishing, dealers, and net fishing licenses. Fish production statistics. Establishment of seasons. Fishes— Fishing control inspection. Fishing operations. Fishing for other Departments of the Government. Such commercial fishing as the Service may undertake. All money owing. Responsibility for records, reports and accounts. Game and Fish Statistics— Game fish management. Supervision of hatcheries and season collection. Distribution of young fish. Retrieval of game fish. Establishment of seasons. Closure of fishing waters. Biological studies. Surveys and investigations.	Supervision of— Prevention and suppression of forest fire and insect damage. Construction and maintenance of Forest Protection and Fish and Wildlife buildings, towers and telegraph lines. Maintenance and storage of fire fighting equipment. Deposit of fire hazards. Staff appropriations and expenditures. Control of— Radio and telephone communication systems. Use of equipment, buildings and other improvements. Expenditures pertaining to forest protection. Statistics and records. Regulation of equipment. Completion of estimates. Administration of— Forest Protection under the Forest Fires Prevention Act. Railway Transport Board of Transport Commissioners. Agreements with organized municipalities. Travel and burning permit system. Land Inspection— To ensure proper use of land. Eligibility to acquire patent lease or license. Preparation of— Land Manuals, pamphlets, forms, legislation, permits, leases, licenses of occupation and land transfers. Maintenance of— Records of all land dispositions. Examining and checking all Government land. Biological studies. Interpretation of the Acts.	Surveying, leasing and licensing of Crown Lands for— Farming and allied uses. Warmer records and all other purposes excepting for farm uses, right-of-way for electric power and telephone lines, or for hydro-electric power developments. Issuance of vesting orders to Government Departments. Collection of fees. Administration of all Provincial Parks— Leasing and licensing of land for summer resort use. Collection of fees. Directing administration. Land Use Planning— For summer resort, agriculture and other uses. Land Inspection— To ensure proper use of land. Eligibility to acquire patent lease or license. Preparation of— Land Manuals, pamphlets, forms, legislation, permits, leases, licenses of occupation and land transfers. Maintenance of— Records of all land dispositions. Examining and checking all Government land. Biological studies. Interpretation of the Acts.	Preparation of— Legislation, regulations, by-laws, agreements and vesting orders. Recommendations to Legislative Council. Administrative studies. Attendance, staff and personnel records. Workers' compensation. Munitions— Training Orders in Council. Legal advice on— Interpretation and application of statutes, regulations and orders-in-council. Consulting with and advising Head Office and Field Staff on all Departmental matters of a legal nature. Correspondence with and attendance upon private and corporate interests having various grievances which are extra-Departmental. Arbitration of— Disputes—Claims. Appeals to Land Tax Collection. Conducting litigation. Investigation and checking of patents, leases and licenses of occupation. Patent Applications— Particularly in forest fire prevention and Fish and Wildlife Conservation. Lecture tours in schools, logging camps, facilities camps, fish and game associations as requested. Photographs, slides, motion pictures for lecture tour purposes. Articles, press, radio, exhibits, signs and posters on conservation and forest protection. School Work— Cooperation with educational authorities on last books, teachers' aids, posters, radio and movie objects as requested by them.	Foreman Management— Determining selection, application, classification, staff welfare, salary rating, promotional and storage. Attendance, staff and personnel records. Workers' compensation. Munitions— Training Orders in Council. Office Management— Purchase and distribution of all equipment and supplies, and stock control. Inventory. Locating and expediting supplies. Disputing, lease—Revolutions. Distribution of printed matter. Serving— Spans adjustment. Information and Education— Conferences— General lectures. Departmental Routine Publications— Editing, writing, reviews, printing, distribution. Public Appeals— Particularly in forest fire prevention and Fish and Wildlife Conservation. Lecture tours in schools, logging camps, facilities camps, fish and game associations as requested. Photographs, slides, motion pictures for lecture tour purposes. Articles, press, radio, exhibits, signs and posters on conservation and forest protection. School Work— Cooperation with educational authorities on last books, teachers' aids, posters, radio and movie objects as requested by them.	Administration of— Provincial Forest Stations. Forest Tree Seed Supply. Seed collection, extraction, germination and storage. Forest Tree Nurseries. Experimental and Demonstration Forest Plantations. Forest Tree Distribution. Selection Work Through Zone Forestry— Municipal reforestation. Inspection of private woodlands and plantations. Rural school plantations. Lectures on reforestation to schools, county councils, service clubs, etc. Information and Education— Conferences— General lectures. Departmental Routine Publications— Editing, writing, reviews, printing, distribution. Public Appeals— Particularly in forest fire prevention and Fish and Wildlife Conservation. Lecture tours in schools, logging camps, facilities camps, fish and game associations as requested. Photographs, slides, motion pictures for lecture tour purposes. Articles, press, radio, exhibits, signs and posters on conservation and forest protection. School Work— Cooperation with educational authorities on last books, teachers' aids, posters, radio and movie objects as requested by them.	Research for— Forest Management: Re-forestation, Cutting, Propagation, Growth Studies, Silviculture, Yield, Disease, Forest Protection: Fire, Insects, Disease, Soils, Forest Pathology, Forest Silviculture, Fish and Wildlife: Inventory Management, Statistics, Forest Pathology, South Bay Experiment. Soil Survey: Land Use Survey, Chemical, Physical and Biological Analysis of Forest Soils. Wood Utilization. Forest Economics. Mechanical-Electrical Development: Pumps, Hoists, Engines, Communications Equipment, Reclamation Equipment, Woods Utilization Equipment. Co-operation with— University of Toronto, National Research Council, Science Service, Defence Research, Ontario Research Foundation, etc. Operation of— Southern Research Station.	Ground Station Administration of— Water Powers and stream control. Selection of official Geographic names. History relevant to Provincial Boundaries. Planning, Instructions and Inspection of— Provincial Reserves, Re-forestation and Municipal Gardens and all services of Crown Lands. Examination and Checking of— Plans, descriptions and reports of all types of surveys of Crown Lands, dams and other structures as required by the Lakes and Rivers Improvement Act. Preparation of— Maps issued by the Department. Plans of Crown Land Survey. Description of areas for Government Departmental. Forest Pathology. Lectures for dissemination, telephone and railway rights-of-way. Road areas and dam sites. Publication and Distribution of— Provincial, Township and Topographical Maps. Collection and Review of— Original survey plans and plans, selected Geographic maps. Supplying of— Permanent copies of maps and survey records and other data to Government Departments and the public. Air Survey Station— Photography required for Forestry, Highway and Forest purposes. Processing films and preparation of types of maps required. Supplying prints of areas photographed to various Departments and the public.	Timber Sales and Licenses— Application, Sales, Tenders, Licenses and records. Timber, additions, extensions, abatements, Statistics, Map records. Timber Returns— Preparation timber dam accounts. Statistics, records of cut. Paper of Forest— Analysis of contracts. Records of wood exported. Bills Licensure— New mill, mill and paper and other mill licenses. Records of mill production. Selling— Lumber and mill products. Regulation of scales. Survey and Inventory— Regulation and supervision. Maintenance of maps. Maintenance of inventory. Management Plans— Monitor and annual plans required under agreements. Supervision of Woods Operations— Particularly in and in connection with— Lumber, mill operations, logging, reforestation, etc. Liaison between government and industry.

ADMINISTRATIVE DIVISIONS



PROVINCE OF ONTARIO

Department of Lands and Forests

Hon. H. R. Scott
Minister

F. A. MacDougall
Deputy Minister

AREAS OF ADMINISTRATIVE DISTRICTS

<i>Districts</i>	<i>Area</i>
Algonquin.....	3,545,600 acres
Chapleau.....	4,085,760 acres
Cochrane.....	9,251,840 acres
Fort Frances.....	4,377,600 acres
Geraldton.....	8,035,840 acres
Gogama.....	4,154,880 acres
Kapuskasing.....	9,075,000 acres
Kenora.....	6,812,160 acres
Lake Erie.....	4,416,000 acres
Lake Huron.....	5,952,000 acres
Lake Simcoe.....	2,949,120 acres
North Bay.....	5,580,800 acres
Parry Sound.....	3,965,440 acres
Port Arthur.....	9,679,360 acres
Quinte.....	4,536,320 acres
Rideau.....	3,489,280 acres
Sault Ste. Marie.....	10,309,120 acres
Sioux Lookout.....	18,291,200 acres
Sudbury.....	4,610,560 acres
Trent.....	3,279,360 acres
Total.....	126,397,240 acres

PERSONNEL MANAGEMENT

Selection and Placement:

Applications for employment with the Department come to us, for the most part, through the Office of the Civil Service Commission. A considerable number, however, are received direct. All persons making application at Head Office are interviewed by the Personnel Officer or his representative and a report on each applicant is made summarizing all essential details concerning the applicant's qualifications, experience and personal history and, as well, the interviewer records his impression of the applicant and makes his recommendation to the Chief of this Division.

The testing and rating of applicants for stenographic, typing and clerical positions by the Office of the Civil Service Commission has been of great assistance to us in recruiting competent persons in these classes.

The Department, has, wherever possible, placed ex-service personnel as positions or replacements became necessary. Of those appointed to the staff during the fiscal year, 70.5% were ex-service personnel. A statement appears which indicates the relative number of male and female employees.

Twenty Fish and Wildlife Specialists were appointed to give immediate, close supervision to enforcement matters in the various administrative districts under the respective District Foresters. The fish hatchery staffs became part of the District organizations.

On November 28, 1946, the Honourable H. R. Scott succeeded the Honourable W. G. Thompson as Minister of Lands and Forests.

On April 1, 1946, J. M. Taylor was appointed District Forester at Gogama. On the same date F. J. Dawson was appointed District Forester at Chapleau.

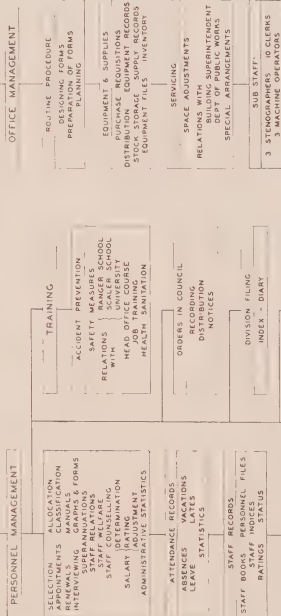
DEPARTMENT OF LANDS AND FORESTS

DIVISION OF OPERATION AND PERSONNEL

CHIEF OF DIVISION

OFFICE AND PERSONNEL MANAGEMENT

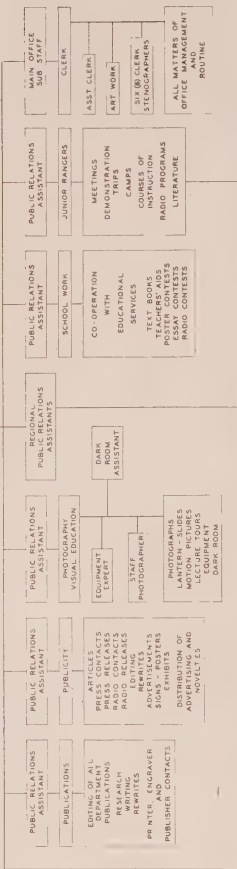
SUPERVISOR



SUB STAFF
9 CLERKS
9 STENOGRAPHERS
4 ARTISTS

INFORMATION AND EDUCATION

SUPERVISOR



REGIONS
MID-WESTERN
SOUTH CENTRAL
SOUTH EASTERN
SOUTHWESTERN

DISTRICTS
ALCONDA
CHARLEAU
HARVEY
PORT ARTHUR
QUINTE
SAULT STE MARIE
SANDWICH
SIOUX
LAKE ERIE
LAKE HURON
TRENT

On June 3, 1946, Dr. W. J. K. Harkness was appointed Chief, Division of Fish and Wildlife.

On July 15, 1946, F. E. Sider, after his release from the Armed Services, was appointed District Forester at North Bay.

On August 22, 1946,

W. E. Steele was appointed District Forester of Rideau District.

A. Crealock was appointed District Forester of Quinte District.

A. B. Wheatley was appointed District Forester of Trent District.

I. C. Marritt was appointed District Forester of Lake Huron District.

F. S. Newman was appointed District Forester of Lake Erie District.

On September 28, 1946, J. F. L. Simmons was appointed District Forester of Lake Simcoe District.

On November 1, 1946, W. D. Cram was appointed Regional Forester of the South Eastern Region.

As of November 1, 1946, T. E. Mackey, formerly Regional Forester, North Bay, was appointed Chief, Division of Forest Protection.

As of March 1, 1947, W. D. Cram became Chief, Division of Land and Recreational Areas in addition to his duties as Regional Forester.

The following members of Staff were superannuated during the fiscal year:

<i>Name</i>	<i>Division or District</i>	<i>Date</i>
Barran, J. G.	Fish and Wildlife	April 22, 1946
Taylor, D. J.	Fish and Wildlife	May 16, 1946
Burwash, N. A.	Surveys and Engineering	June 1, 1946
Beaupre, J. M.	Fish and Wildlife	July 1, 1946
Heath, W. H.	Surveys and Engineering	Aug. 29, 1946
Potter, E. E.	Cochrane	Sept. 17, 1946
McInnis, C. C.	Parry Sound	Oct. 18, 1946
Bouchey, A. C.	Gogama	Feb. 9, 1947
Ranger, P.	Algonquin	Feb. 28, 1947

VETERAN PERSONNEL AS OF MARCH 31, 1947

(Exclusive of Casual Staff)

	<i>Male</i>	<i>Female</i>	<i>Total</i>
Inside.....	146	6	152
Outside.....	318	..	318
	464	6	470

	<i>1st War</i>	<i>2nd War</i>	<i>Both Wars</i>	<i>Total</i>
Inside.....	39	105	8	152
Outside.....	133	174	11	318
	172	279	19	470

Total Staff, March 31, 1947.

	<i>Perm.</i>	<i>Continuous Temp.</i>	<i>Casual</i>	<i>Total</i>
Head Office....	215	166	6	387
Field.....	308	396	521	1225
Total.....	523	562	527	1612

Permanent Staff.....	523
Temporary Staff.....	562
Total.....	1085
Veterans as above.....	470
Per cent. of Veterans.....	43.3%
Male Staff.....	946
Male Veterans.....	464
Per cent. of Veterans.....	49%

NOTE.—This statement includes Air Service as inside staff.

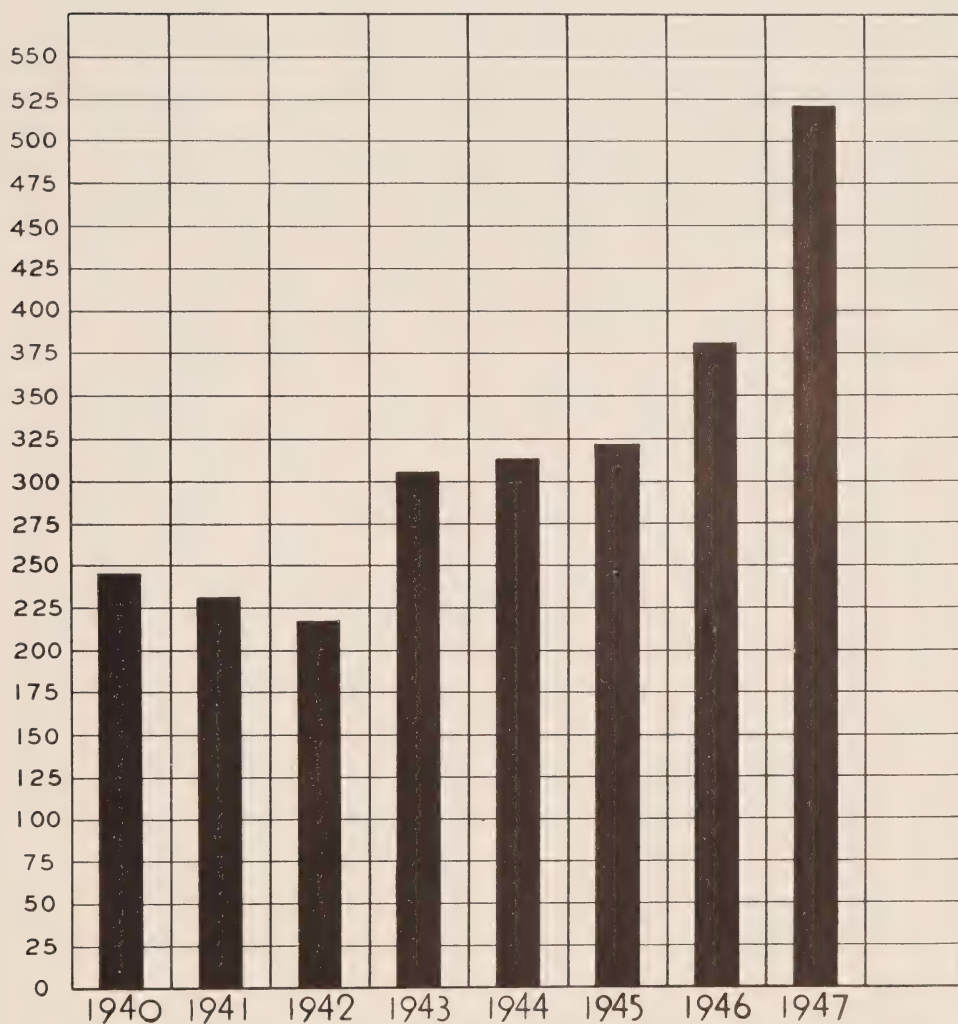
PERMANENT AND TEMPORARY EMPLOYEES
AS OF MARCH 31, 1947

DIVISION	PERMANENT		TEMPORARY		TOTAL		GRAND TOTAL
	Male	Female	Male	Female	Male	Female	
Air Service.....	47	..	21	2	68	2	70
Accounts.....	18	15	19	11	37	26	63
Fish and Wildlife.....	17	8	7	7	24	15	39
Forest Protection.....	9	2	2	2	11	4	15
Lands and Recreational Areas	8	10	4	6	12	16	28
Law.....	1	1	..	..	1	1	2
Main Office.....	1	4	..	1	1	4	5
Operation and Personnel....	17	6	26	15	43	21	64
Reforestation.....	5	..	3	3	8	3	11
Research.....	8	3	4	1	12	4	16
Surveys and Engineering....	21	2	17	4	38	6	44
Timber Management.....	9	3	9	3	18	6	24
	161	54	112	54	273	108	381

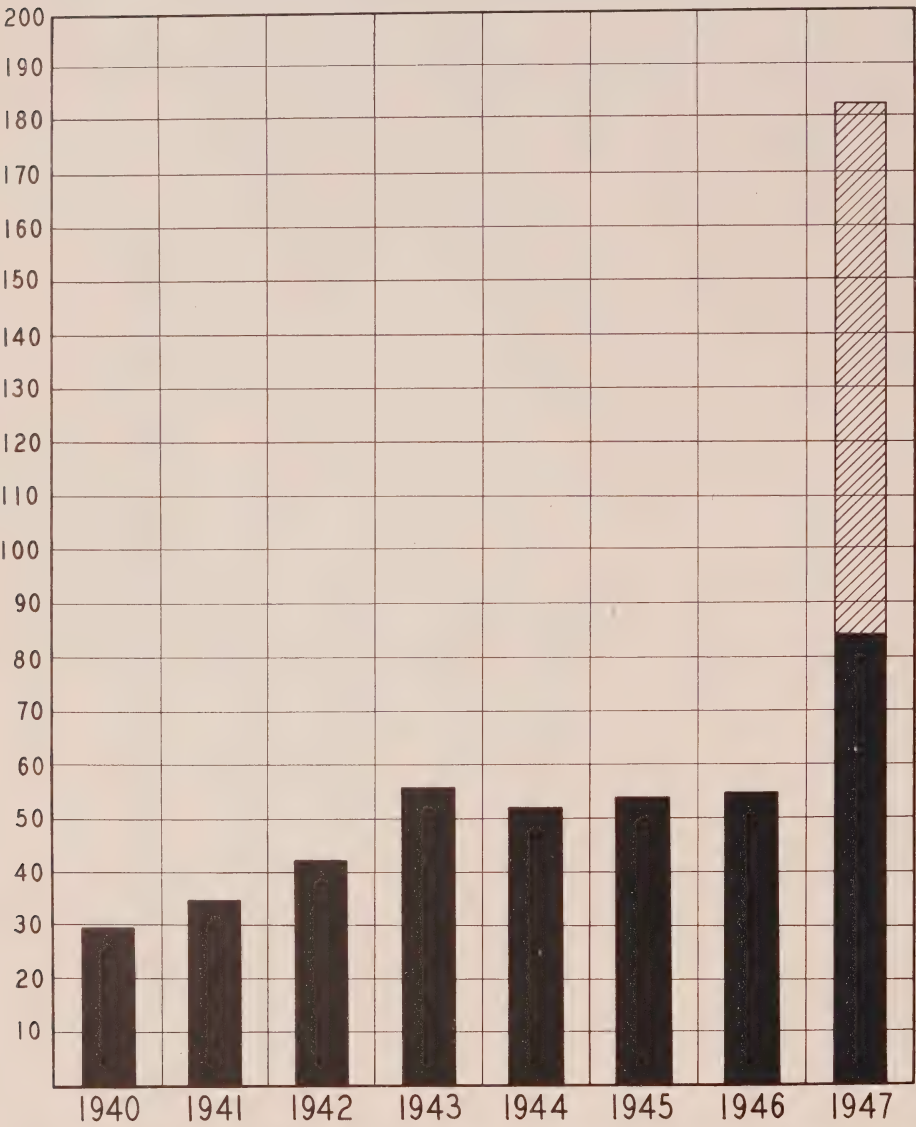
PERMANENT AND TEMPORARY EMPLOYEES
AS OF MARCH 31, 1947

DISTRICT	PERMANENT		TEMPORARY		TOTAL		GRAND TOTAL
	Male	Female	Male	Female	Male	Female	
Algonquin.....	24	..	34	..	58	..	58
Chapleau.....	7	..	12	..	19	..	19
Cochrane.....	15	..	30	1	45	1	46
Fort Frances.....	11	..	17	1	28	1	29
Geraldton.....	6	..	9	1	15	1	16
Gogama.....	5	..	11	..	16	..	16
Kapuskasing.....	11	..	22	2	33	2	35
Kenora.....	11	2	23	..	34	2	36
Lake Erie.....	20	..	14	..	34	..	34
Lake Huron.....	17	..	13	..	30	..	30
Lake Simcoe.....	14	..	29	..	43	..	43
North Bay.....	30	4	19	3	49	7	56
Parry Sound.....	16	2	20	1	36	3	39
Port Arthur.....	14	2	22	3	36	5	41
Quinte.....	11	..	22	2	33	2	35
Ranger School.....	7	..	2	..	9	..	9
Rideau.....	5	..	11	..	16	..	16
Sault Ste. Marie.....	22	2	22	1	44	4	48
Sioux Lookout.....	6	..	17	1	23	1	24
Sudbury.....	32	1	14	1	46	2	48
Trent.....	11	..	15	..	26	..	26
	295	13	378	18	673	31	704

DEPARTMENT OF LANDS AND FORESTS



PERMANENT EMPLOYEES
AS OF MARCH 31st EACH YEAR



TECHNICAL PERSONNEL EMPLOYED :: 1947
(FORESTERS ONLY, NOTED TO 1946)

Oblique shading denotes seasonal Technical Personnel employed 1947



SECTION OF THE DIVISION OF OPERATION AND PERSONNEL.

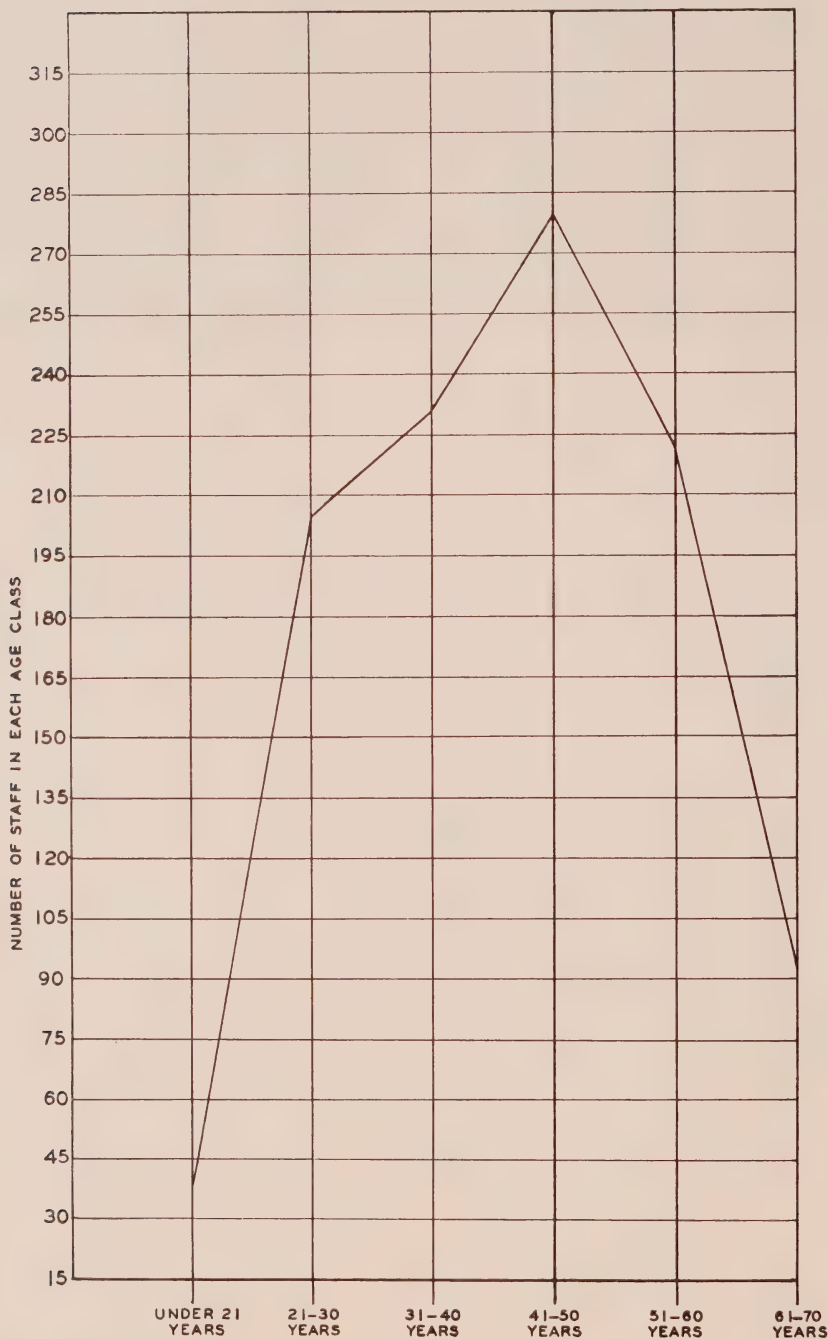
NUMBER OF EMPLOYEES BY MONTHS
FOR FISCAL YEAR ENDED MARCH 31, 1947

MONTH	INSIDE			OUTSIDE			Total
	Perm.	Temp.	Casual	Perm.	Temp.	Casual	
1946							
April.....	136	86	5	238	277	1222	1964
May.....	141	81	15	244	275	1469	2225
June.....	177	93	9	362	331	1486	2458
July.....	174	107	12	349	341	1539	2522
August.....	175	118	14	352	348	1369	2376
September.....	177	121	7	365	348	1251	2528
October.....	177	124	..	362	378	882	2188
November.....	175	130	..	351	374	671	1722
December.....	174	135	2	353	375	702	1749
1947							
January.....	168	144	4	356	368	688	1728
February.....	165	155	4	356	366	561	1607
March.....	168	143	3	355	419	524	1612

Tables of Age Classes of employees of Department of Lands and Forests—
Permanent and Continuous Temporary, as of 31st March, 1947.

<i>Age</i>	<i>Number of Employees</i>
Under 21.....	40
21-30.....	209
31-40.....	231
41-50.....	280
51-60.....	228
61-70.....	91
Over 70.....	6
Total.....	1085

CHART OF AGE CLASSES



DEATHS

The following are regretfully reported:

J. St. Louis, Forest Ranger at Kapuskasing, on July 8th, 1946.

C. E. Binkley, Game Overseer at North Bay, on November 6th, 1946.

H. W. Crosbie, Chief, Division of Land and Recreational Areas, on November 2nd, 1946.

Investigations:

Constant liaison work has been conducted and essential investigations made from time to time throughout the service as required, through which the Head Office Relations with the field and vice versa have been facilitated.

Accident, Health and Safety Measures:

Medical and X-ray examinations have been continued. As a result, a large number of the staff have been done, and in this connection, it may be observed that it is now essential for employees recommended for promotion to the Permanent Staff to be categorized by the Health Clinic, or under their supervision. Health and Accident Prevention literature has been circulated and arrangements are being made for this to be followed by motion picture propaganda.

Attendance Records:

These are compiled monthly and are necessarily maintained with considerable care due to the fact that sick leave accumulations of employees with over five years service are worth half pay on their separation from the service.

Staff Suggestion Plan:

The interest of both employee and official in this plan has been maintained and on January 13, 1947, thirteen prizes for suggestions were awarded by the Committee as follows:

<i>Name</i>	<i>Suggestion</i>
R. H. Keenan, Sudbury.....	Display Cards in Railway Stations.
George E. Knight, Parry Sound.....	Statement of Fire-Fighting Expenses.
P. H. Foley, Kenora.....	Battery Tester Holder.
J. B. Thompson, Toronto.....	Publicity Parke Township.
Quimby F. Hess, Kapuskasing.....	Use of Fire Hazard Indicators.
Miss V. Molesworth, Toronto.....	Manual of Timber and Pulpwood Agreement Clauses.
J. A. Wynd, Armstrong.....	Pulpwood Rule.
W. H. Porch, Algonquin Park.....	Birds of Algonquin Park.
B. R. Somers, Sudbury.....	Chalk Holder.
Sydney Yavner, Toronto.....	Defect Calculator for Scaling.
H. E. Kedey, Sudbury.....	Paint Record Form.
Walter C. Davidson, Air Service, Sault Ste. Marie.....	Valve Depressor Tool.
Fernand De Sourdy, Port Arthur.....	Fine Spray Water Nozzle.

STAFF MEETINGS

Regional Meeting:

Regional Conferences including all the senior administrative officers of each region respectively, were held as follows:—

Western Region.....	Kenora.....	Oct. 7-8
Thunder Bay.....	Port Arthur.....	Oct. 10-11
Southern.....	Ranger School.....	Oct. 31—Nov. 1

District Foresters' Meetings:

The annual District Foresters' Conference was held in Toronto, January 20th to January 25th, 1947. It was attended by Field and Head Office officials, and with an organized time table and classified agenda, the proceedings resulted in a most beneficial conference.

Supplementary Conference:

A supplementary conference was held from February 17th to February 21st, 1947, attended by field foresters other than District Foresters. This conference provided an opportunity for Assistant Foresters and other senior officials to discuss current and other problems in open forum, for which suitable provision could not be made on the agenda of the Regular Conference. Definite benefits were immediately apparent, and because of this and the reactions of those who attended, it is proposed to continue the practice in an endeavour to bring about closer relations between the Field and Head Office and facilitate the efficient discharge of the responsibilities of all concerned.

TRAINING

The following are the details of First Aid Training, Job Instruction Training and the Head Office Staff Courses for the fiscal year. The favourable reaction of the staff and their hearty interest in the instruction as given, to say nothing of improved performance, is reflected in the ratings obtained by those instructed under the various headings.

The number of employees that completed First Aid Training successfully, as provided by the St. John's Ambulance Association, was 80.

The number of employees that completed the Job Instruction Training Course was 72.

The number of employees that completed the Head Office Staff Course was nine.

Ontario Forest Ranger School:

All of the buildings have not yet been completed, but the results obtained so far are most gratifying and it is hoped that the building programme will have been finished towards the end of 1947. The second term began October 1st, 1946, and concluded October 31st, 1946.

The following members of the staff attended from the various districts:

<i>Algonquin</i>	<i>Gogama</i>	<i>Port Arthur</i>
M. Getz	E. Barnes	W. J. Gibson
F. P. McIntyre	L. Morin	T. J. Buerard
J. Orme		W. H. Jarvis
J. Tait	<i>Kapuskasing</i>	C. W. McDonald
	E. A. Boice	
<i>Chapleau</i>	H. E. Hutchinson	<i>Quinte</i>
E. Collard	J. M. McDougall	K. Legris
G. T. Godemair		
<i>Cochrane</i>	<i>Kenora</i>	<i>Sault Ste. Marie</i>
S. E. McWhirter	P. Borup	J. Bennett
O. K. Welsh	J. A. Murphy	C. MacDonald
P. M. Dolan	J. MacKay	H. MacLeod
	F. Nicoll	C. Tregonning
<i>Fort Frances</i>	<i>North Bay</i>	<i>Sioux Lookout</i>
D. C. Baldwin	D. Burns	J. E. Anderson
R. H. Pattison	R. Laurin	P. Maskerine
S. V. Ryan		J. B. Rorke
<i>Geraldton</i>	<i>Parry Sound</i>	<i>Sudbury</i>
S. Maki	S. Booker	W. Wetow
	H. W. LaBrash	

During the period December 2nd to December 19th, 1946, inclusive, a Fish and Wildlife course was held at the Ranger School. It was attended by the Specialists and Enforcement Officers from the various districts, with obvious benefits.

Scaler's Course:

Under the direction of the Division of Timber Management, five courses were given at Minden, Thessalon, Fort William and Swastika respectively. Details of the results of examinations which followed these courses are reported by the Division of Timber Management on page 156.

Workmen's Compensation:

The provisions of the Act are available to the staff of the Department, many of whom are from time to time engaged in hazardous work—benefits in pay, medical aid and pensions.

For the past fiscal year the cost to the Department was \$22,051.73. The administrative charge of the Board was \$754.50. Last year these figures were \$12,458.04 and \$334.50 respectively.

Over the period back to 1938, these costs have varied from a minimum of \$12,850.33 in 1944 to \$17,129.85 in 1939.

The variations seem to be compatible with the intensity of the fire hazard, as the number of accidents and the incidence of these rise in the dry months and decline in the fall.

Every effort is made to eliminate dangerous or careless practice and so reduce cost, man day losses and job delay.

Chief Forest Rangers and their Divisions as of March 31, 1947.

<i>Division</i>	<i>District</i>	<i>Chief Ranger</i>
A. C. R.	Sault Ste. Marie	J. A. MacGillivray
Abitibi	Cochrane	R. Woodall
Algonquin N.	Algonquin	John McIntyre
Algonquin S.	Algonquin	T. McCormick
Armstrong	Sioux Lookout	W. H. Fayle
Bancroft	Quinte	McK. Wilson
Biscotasing	Chapleau	W. P. O'Donnell
Black Sturgeon	Port Arthur	W. J. Gibson (actg.)
Blind River	Sault Ste. Marie	T. E. Cassidy
Capreol	Sudbury	T. McGown
Chapleau	Chapleau	J. E. Morin
Cochrane	Cochrane	C. A. Stanbury
Elk Lake	North Bay	W. A. Adair
Espanola	Sudbury	S. D. Spence
Foleyet	Gogama	R. Languerand (actg.)
Fort William	Port Arthur	T. Guerard
Franz	Sault Ste. Marie	J. A. Foster
Georgian Bay	Parry Sound	Walter Armstrong
Gogama	Gogama	L. Berlinguette
Gooderham	Trent	P. Cassidy
Hearst	Kapuskasing	J. W. Colley
Huntsville	Parry Sound	W. J. Barber
Ignace	Kenora	R. Alcock
Kapuskasing	Kapuskasing	J. H. Clavelle
Kenora	Kenora	F. R. Parmeter
Lake St. Joseph	Sioux Lookout	E. Guertin (actg.)
Longlac	Geraldton	A. Grasser
Madawaska	Quinte	H. M. Legris
Minaki	Kenora	A. Cleavelly
Mobert	Sault Ste. Marie	D. McMenemy (actg.)
Nakina	Geraldton	J. Jarvis
Nipigon	Port Arthur	C. W. McDonald (actg.)
North Bay	North Bay	D. J. Kennedy
Oba	Kapuskasing	B. Wilson
Pays Plat	Geraldton	G. D. MacAdam
Rainy River	Fort Frances	W. Darby
Red Lake	Sioux Lookout	R. Taylor
Sault Ste. Marie	Sault Ste. Marie	H. W. Green
Shebandowan	Port Arthur	J. H. Stirrett
Sioux Lookout	Sioux Lookout	J. Rorke
Sudbury	Sudbury	J. H. Strain
Swastika	Cochrane	F. L. Miller (actg.)
Timagami	North Bay	P. Hoffman
Timmins	Cochrane	O. K. Welsh (actg.)

ROYAL COMMISSION ON FORESTRY

Under Order-in-Council, dated April 16, 1946 and pursuant to the Public Inquiries Act, R.S.O. 1937, chapter 19, Major General Howard Kennedy, C.B.E., M.C., B.Sc. (McGill), was appointed a Commissioner to investigate, enquire into and report upon the forest resources of Ontario and their conservation, management, development and beneficial utilization for all purposes, and was given power to summon any person and require him to give evidence on

oath, and to produce such documents and things "as the commissioner deems requisite for the full investigation of the matter into which he is appointed to examine, by subpoena signed by the commissioner."

Pursuant thereto, the Commissioner conducted public hearings at various points throughout the Province in subsequent months, and submissions to the Commissioner of relevant material from the public were invited. In due course hearings were conducted at the Parliament Buildings, Queen's Park, Toronto, at which briefs were presented at the request of the Commissioner. Briefs presented by the various divisions of our Department, included charts, graphs and explanatory information.

OFFICE MANAGEMENT

Outside Storage Space

It became evident some time ago that the space in the Outside Storage Building, erected at the Southern Experimental Station, would not be adequate to house the increased volume of records brought about by the amalgamation of the Department of Game and Fisheries with the Department of Lands and Forests.

Consequently, it was decided to add two new wings of brick and concrete, similar to the original building. Each wing is thirty feet long by twenty feet wide, one at each end of the main structure, and running at right angles to it. The southern wing was constructed with a basement to accommodate a heating and air conditioning plant with fuel bins. This installation has been completed.

Due to the extreme shortage of sheet steel, it was found to be impossible to obtain our total requirements of steel transfer cases in which to house the records sent for storage. However, about one-third of our requirements were obtained, and these cases are now installed and will meet immediate needs.

Office Space

Due to a great expansion of staff, space adjustments became increasingly necessary, in order to make the utmost use of the offices available. Despite planning for effective utilization of space many offices are badly over-crowded.

Permanent Records.

In addition to the transfer of older records to the Outside Storage Building at Maple, the Records Office Staff had the problem of taking over the files of the Department of Game and Fisheries, and including in the Permanent Records Filing System, those files which should properly be maintained there. At present there are over 140,000 Permanent files and the average mail in connection with these is 200 letters daily, in addition to other mail on various Divisional matters.

Supply Records

A visible index card system is maintained to record the receipts, issues and stock balance of all equipment and supplies handled by this sub-section. This entails a clerk's full time work. The system reflects the quantities and location of all equipment.

Equipment Records

(a) This comprises a perpetual inventory of non-expendable equipment held by Head Office and all Districts, Forest Stations, Regional Caches, etc., in the Department.

(b) With the incorporation of the Department of Game and Fisheries with this Department, and the organization of five new Districts, the amount of work involved has become much greater. It is necessary to pick up all items of non-expendable equipment from invoices passed for payment, to record them in their proper classification and location, and to be able to render a completely priced statement at any time this might be required. The work of absorbing into our system the Game and Fisheries forms and licences was difficult and protracted, but in due course accomplished.

(c) The expansion of Department Staff, together with the inclusion of the Department of Game and Fisheries as a new Division, increased tremendously the volume of equipment and supplies purchased and distributed. This increase was accentuated by the concentration of all Main Office purchasing under the Division of Operation and Personnel, as of December 1st, 1946.

The volume of requisitions from Field and Main Offices, during the year, was more than double the number processed in the previous year.

(d) Distribution of Technical Circulars and Publicity Material:—

A vastly increased quantity of informative literature, in the form of Technical Circulars and Publicity material was distributed during the year.

Distribution and Stock Storage

These functions are detailed jointly rather than individually because they are so closely allied. All the equipment and supplies mentioned above received in our stockroom are closely checked against King's Printer requisitions, Public Works requisitions or purchase orders, as the case may be. Goods which are required for the immediate filling of an outstanding order are checked against that order and prepared for shipment, in the case of Field Offices. Requirements for Head Office needs are checked against the Divisional requisition and delivery is made to the office of origin where signature is obtained.

Goods for long term supply, such as printed forms (of which nearly 1,000 different types are in actual use) maps, advertising and publicity material, bulk stationery and office supplies and certain smaller items of equipment, must be carefully placed in stock in orderly fashion to be readily available when required.

In addition to the foregoing, our duplicating machines are located in the stockroom and all duplicating work for the Department is carried out there by means of mimeograph or multilith processes. This work includes the production of a large percentage of the Departmental forms now in use, numerous technical and other reports, form letters, and a large volume of Technical, Policy, Divisional and Information Circulars. A record of cost on all duplicating work is maintained.

The foregoing items must be assembled, stitched, folded where necessary, placed in envelopes and dispatched to Parliament Buildings' Post Office. In addition, a heavy flow of educational literature is dispatched in a similar manner.

Some idea of the volume of work carried on in this stockroom may be given from the following figures covering activities of the past twelve months:

- 140 tons of goods handled annually.
- 8,500 booklets dispatched quarterly.
- 2,000 pamphlets dispatched semi-monthly.
- 144,000 circulars produced, assembled and dispatched annually.
- 250,000 mimeograph impressions made annually.
- 1,768,000 multilith impressions made annually.
- 21,280 orders, received, filled, checked and shipped.

(This figure of 21,280 is made up of 6,280 orders of stationery and supplies, and 15,000 shipments containing 469,700 Fish and Game Licences).

In addition to the recording of all incoming requisitions and outgoing shipments, a permanent record is maintained of all serially numbered forms such as Cutting Permits, Land Permits, Cash Receipt Books, for casual payroll and extra Fire Fighting staff, Main Office receipts, and Rental Due Notices.

1.—*Servicing—Messenger Service*

A messenger service is maintained and these duties are carried out by junior members of the Record's Staff.

2.—*Space Adjustments*

Many adjustments must be made in order to accommodate a greatly increased staff in already crowded office space. The situation has become critical and even with the removal of certain sections of the Department to other quarters outside the Parliament Buildings, space is still at a premium. This is considered most important in order that the administration of the Department may be facilitated properly.

3.—*Relations with Building Superintendent, Department of Public Works and Special Arrangements.*

It is difficult to detail the duties carried out under this heading, but they nevertheless consume a considerable proportion of the time of the officer in charge of the section and certain members of the staff. This includes arrangements for moving of office furniture, accommodation for special conferences, etc., major moves of section as mentioned in (2) above, and the handling of specially large incoming or outgoing freight shipments.

INFORMATION AND EDUCATION

Introduction

The eagerness with which the people of Ontario have sought information concerning their natural resources during the past year has been remarkable indeed.

The merger of the Departments of Lands and Forests and Game and Fisheries on June 2nd, 1946, increased considerably the scope and volume of work of this section. It is felt that good management of our fish and wildlife resources depends largely on the understanding and consequent co-operation of anglers and hunters. Enforcement of the fish and game laws and regulations is in itself economically impossible without such active co-operation. Therefore, the increased volume of appeals for observance of the fish and game laws during the year was considered to be justified.

Staff

(1) The clerical-stenographic staff was increased from three to four during the year.

(2) The man appointed in charge of appeals in February, 1946, was transferred to the field staff in November, 1946, and was not replaced at head office.

(3) In May, 1946, a former member of the Department of Game and Fisheries took over the duty of answering general inquiries regarding fish and wildlife.

(4) In the early part of the year, two field lecturers were added to the staff,

and one more at a late date, bringing the full-time field staff up to four. Two other lecturers operated during the summer season.

(5) One full-time photographer and a photo-processor were engaged in the fall of 1946.

PUBLICATIONS

Twenty-three new booklets were published during the year, and ten others were reprinted, with revisions. Four issues of the Department's magazine "SYLVA", started in the previous year, were published.

The demand for publications increased, in many cases exceeding the supply. A great volume of letter writing by administrative officers was eliminated through the use of these publications.

Publications for Distribution:

Air Service

Wings Over the Bush.

Fish and Wildlife

Fur Farming in Ontario
Summary of the Game and Fisheries Act and Regulations
Game Birds Need Cover
Thou Shalt Not
The Cormorant in Ontario
The Chapleau Crown Game Preserve
Early Experiments in Fish Culture
Prairie Chicken in Ontario
Natural History of Algonquin Park

Forest Protection

Forest Fires Prevention Act and Regulations
Yes, We Fight Forest Fires

Land and Recreational Areas

Manual of Public Land Administration
Summer Resort Lands in Ontario
Lands for Settlement in Ontario
Canada's New Paradise for Sportsmen
Algonquin Provincial Park
Quetico Provincial Park
Rondeau Provincial Park
Parry Sound District (lands for sale)
Kenora District (lands for sale)
Sudbury District (lands for sale)
Algonquin Story (\$2.00 per copy)

Research

Pedology, the Dirt Science
D.D.T. in Ontario Forests

Reforestation

Care and Planting of Forest Trees
The Farm Woodlot
Forest Trees for Distribution
Windbreaks and Shelterbelts
Forest Tree Planting

Reforestation—Continued

Glacial Pot Hole Area, Durham County
Planning for Tree Planting
Reforestation

Surveys

List of Townships in Province of Ontario
List of Lithographed Maps and Plans
Ontario Surveys and the Land Surveyor
Aerial Surveys in Ontario
List of Water Powers in the Province of Ontario

Timber Management

Forest Resources of Ontario
Crown Timber Regulations
Crown Timber Dues
Procedure to Cut Timber from Crown Lands
Systems of Forest Cropping
Manual of Scaling Instructions
Woodmen's Employment Act
Know Your Forest Trees
Tree Chart
Forest Trees of Ontario (50c. per copy)

General

Minister's Annual Report
Indians of Ontario
Ontario Forest Atlas (\$1.00 per copy)
The History and Status of Forestry in Ontario
Definitions of Important Branches of Forestry

LECTURE TOURS

The lecture tours were highly successful in the past year. It is considered that the showing of motion pictures is one of the best means of influencing the public to become more careful in the use of fire in the woods, and in observance of the fish and game laws.

The feature pictures used were "To-morrow's Timber" and "Portage", supported by a number of short subjects. Towards the close of the year a fish and wildlife picture, entitled "Realm of the Wild" was purchased from a U.S. source. There is a great need for the production of conservation pictures in Ontario locale.

One picture, "Timagami Ranger" was produced under Department direction during the year, and will be available for showing at the start of the next fiscal year.

Articles

Forty-one press releases were issued during the year. In addition, data was supplied to reporters and editors for numerous articles. The 24,000 column inches of space given by Ontario newspapers to Department activities and interests represented a 20 per cent. increase over the previous year.

Fifty articles written by the staff of the Department, were published in magazines, in addition to over 1,000 news items. Several articles by feature writers were published in national magazines, based on material supplied by the Department.

LECTURE TOUR RECORD
APRIL 1, 1946 TO MARCH 31, 1947

REGION	DISTRICT	SCHOOL MEETINGS		BOYS' & GIRLS' CAMPS		(1) PUBLIC MEETINGS		TOTALS 1946-7		TOTALS 1945-6	
		No.	Attend.	No.	Attend.	No.	Attend.	No.	Attend.	No.	Attend.
Western	Kenora.....	37	3,432	.....	.....	8	503	45	3,935	30	2,078
	Fort Frances.....	1	83	.....	.....	22	2,134	23	2,217	10	847
	Sioux Lookout.....	.....	.....	.....	.....	15	1,610	15	1,610	8	1,308
Mid-Western	Port Arthur.....	.....	.....	.....	.....	8	400	8	400	120	14,977
	Geraldton.....	.....	.....	.....	.....	.....	.....	.....	.....	33	3,202
Central	Sault Ste. Marie.....	81	8,120	.....	.....	14	1,274	95	9,394	.....	.....
	Sudbury.....	85	5,688	.....	.....	13	1,766	98	7,454	167	27,470
	(2) Gogama.....	6	457	.....	.....	.....	.....	6	457	.....	.....
	(3) Chapleau.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	North Bay.....	105	7,896	12	907	18	1,500	135	10,303	33	4,363
Northern	Kapuskasing.....	.....	.....	.....	.....	.....	.....	.....	.....	40	4,792
	Cochrane.....	29	7,844	.....	.....	6	872	35	8,716	72	8,239
South Central	Parry Sound.....	4	989	10	1,405	17	1,533	31	3,927	23	3,362
	Algonquin.....	.....	.....	16	2,550	22	3,050	38	5,600	18	3,207
South Eastern	Quinte.....	14	1,690	13	1,657	29	4,091	56	7,438	45	1,590
	Rideau.....	16	7,648	.....	.....	12	2,075	28	9,723	.....	.....
	Trent.....	1	69	6	994	11	1,139	18	2,202	.....	.....
	Lake Simcoe.....	6	1,372	.....	.....	77	5,968	83	7,340	(4) 65	5,000
South Western	Lake Huron.....	20	5,702	1	23	33	5,661	54	11,386	.....	.....
	Lake Erie.....	.....	.....	.....	.....	13	1,321	13	1,321	70	3,036
						781		781	93,423	734	83,471

(1)—“Public Meetings” has reference to meetings at service clubs, various types of associations, logging camps, and forest communities.

(2) and (3)—The Gogama and Chapleau districts formerly formed parts of the Sudbury district.

(4)—The 65 meetings with an attendance of 5,000 were not included in last year's report. These meetings were put on by members of the head office staff.

POSTERS

The following cards were issued during the year, for posting in Northern Ontario forests:

Campsite
Do Not Set Out Fires
Forest Fire Law
Forest Fires are Caused By
A Good Sportsman Stops to Smoke
He Is Burning Your Forest
Look Before You Leave
Timber Seizure Notice
Settlers and Others Burning Brush
Stop—Have You Got Your Travel Permit
Stop—Did You Put Out Your Campfire
Trespassing is Forbidden
Your Campfire

Radio

Seven 10-minute interview broadcasts were given over a Toronto station, and discs distributed to 16 Ontario stations for recording. All of these were informative.

Radio stations in Ontario rendered valuable assistance to District Foresters in broadcasting spot messages in connection with forest fires.

Advertising

A total of 98 advertisements were placed with Ontario daily and weekly newspapers, calling for tenders for the sale of Crown Timber. Sixty additional advertisements were placed in connection with the Railway Fire Charge Act, Culler's Examinations, sale and purchase of equipment, etc. An announcement of the opening of the hunting seasons for game birds was published in 350 Ontario daily and weekly newspapers.

Conservation appeals in the form of display-type advertisements were published in four Ontario dailies in connection with special events of associations.

Sixty-one conservation appeal display advertisements were published in magazines. Fourteen of these were in timber journals, and seven in special timber issues of business and financial periodicals. Of the balance, twenty-five were placed in fishing and hunting and outdoor magazines or sports programmes, three in farm journals, and twelve in war veterans, police, labour and like journals.

School Work

A forest fire prevention poster contest was conducted, in co-operation with the Department of Education, in the 34 School Inspectorates of northern Ontario. After preliminary selections by the schools and local committees, 285 posters were submitted to the final judging committee. The excellence of the posters, the instruction received by the pupils, and the fire prevention publicity accorded by the press and magazines fully justified the contest.

In addition to the lecture work by the staff in the schools and the general type of literature provided to teachers, it is felt that a limited variety of publications, specially prepared as teachers' aids, would be of great assistance in developing a greater natural resource consciousness in our oncoming generations.

EXHIBITS

Many of the larger fairs, exhibitions, and sportsmen's shows which had been inoperative since early in the war, reopened in the 1946-47 season. A record of the exhibits placed by the Department during the year follows:

EXHIBITIONS	SPONSOR	PLACE	DATES	AREA	TYPE
International Plowing Match.....	Ontario Plowman's Assoc.....	Goderich	Oct. 14-18, 1946	75' x 25'	Reforestation, Fire Prevention, Fish and Wildlife.
Royal Winter Fair.....	Royal Agricultural Winter Fair Association.	Toronto	Nov. 12-20, 1946	83' x 42'	Reforestation, Fire Prevention, Fish and Wildlife.
Barrie Winter Fair.....	Barrie Winter Fair Association.....	Barrie	Dec. 5-6, 1946	32' x 12'	Reforestation.
Northern Ontario Outfitters' Assoc. Annual Meeting and Sports Carnival	Northern Ontario Outfitter's Assoc.	Sudbury	Feb. 2-4, 1947	35' x 10'	Fish and Wildlife, Recreation Land Sales, Fire Prevention.
Hamilton Sportsmen's Show.....	Hamilton Angling & Hunting Assoc	Hamilton	Feb. 28, 1947	30' x 10'	Fish and Wildlife, Fire Prevention.
Western Sportsmen's Fair.....	Thames Boat Club.....	London	Mar. 17-22, 1947	72' x 20'	Fish and Wildlife, Reforestation, Fire Prevention.
Brantford Sportsmen's Show.....	Brant Rod & Gun Club.....	Brantford	Mar. 28-29, 1947	40' x 15'	Fish and Wildlife, Fire Prevention.

In addition to the above, a number of small exhibits were placed by the reforestation field staff at County fairs.

With the re-opening in the coming year of the Canadian National Exhibition at Toronto and the Central Canada Exhibition at Ottawa, together with the prospect of very large scale sportsmen's shows in these same cities, the staff will be heavily taxed in the planning, construction and servicing of exhibits.

Correspondence

The volume of correspondence in response to letters of inquiry for information increased considerably over past years, due particularly to the inclusion of general inquiries concerning fish and wildlife, amounting to approximately 4,200 letters with reference to this subject alone.

Miscellaneous Activities

In addition to other duties in connection with preparation, statistical compilation, research, distribution, and business routine, the Information and Education staff conducted tours of inspection with visitors, gave public relations training to other staff members, and attended meetings and conventions.



NORTHUMBERLAND FOREST—AN AREA REFORESTED BY THE DEPARTMENT OF LANDS AND FORESTS.

DIVISION OF REFORESTATION

Distribution of Trees

The distribution of trees for the year under review reached a figure of 13,175,000, an increase of 2,000,000 over that of the previous season. This increase was largely due to the increased demand by private landowners.

On a cross-section study made of the results of this distribution, it was found that on private planting a very large percentage of loss had occurred. This was especially true of those trying to develop hardwood plantations on heavy clay soil. The losses sustained are attributed to a large number of causes, the outstanding being improper or careless planting, grass and weed competition, along with loss from rodents such as mice and rabbits, and a large percentage of loss from grazing.

It should be emphasized that the successful distribution of forest trees, and their proper development, is dependent on correct plans being made, through experienced forest officers or trained men in the field.

Distribution to Schools

Interest has continued in school planting through the competitions organized by the Ontario Horticultural Association. Trees sent out under these Competitions numbered 560,000.

Seed Collection and Extraction

This past season's seed crop was disappointing, as our important conifers, such as Red Pine and White Spruce, produced a very poor crop. There was a good crop of White Pine seed. This condition was brought about owing to the abnormal temperatures of early Spring, when hot weather and following freezing occurred during the flowering stage.

Provincial Stations

A new Forest Nursery and Provincial Forest Station has been established in North Western Ontario, near Port Arthur and Fort William. This Station, containing 400 acres, is located in the Township of Paipoonge. It is expected that this Nursery will provide planting stock for reforestation projects in North Western Ontario. It was found unsatisfactory to ship material from the older Stations in Southern Ontario.

TABLE No. 1
SUMMARY OF TREES DISTRIBUTED
(July 1, 1945 to June 30, 1946)

	Total Shipments	Conifers	Hardwoods	Total Trees
PRIVATE LANDS:				
Reforestation and Windbreaks.....	5,696	8,062,231	1,152,893	9,215,124
School Children.....	651	401,770	158,378	560,148
SEMI-PUBLIC PROPERTIES.....	74	126,954	33,458	160,412
MUNICIPAL PROPERTIES:				
Municipal Forests.....	44	1,576,050	145,100	1,721,150
Forest Plantations.....	29	175,050	23,100	198,150
Roads.....	29	187,625	7,875	195,500
School Demonstration Plots.....				
Sundry.....	12	9,115	5,800	14,915
PROVINCIAL CROWN LANDS:				
Northern Plantations.....	6	483,200	14,700	497,900
Forests.....				
Ranger Plantations.....	3	2,425	100	2,525
Air Services.....				
Nurseries.....	2	2,700	2,350	5,050
Parks.....	4	10,800	900	11,700
Highways.....	3	91,600	33,675	125,275
H.E.P.C.....				
Hospitals.....	1	500		500
Penal Institutions.....	3	50,750		50,750
Sundry.....	8	114,425	24,410	138,835
DOMINION CROWN LANDS.....	17	181,781	9,545	191,326
Sub-totals.....		11,476,936	1,612,284	13,089,260
MISCELLANEOUS.....	21	55,880	30,435	86,315
Totals.....	6,603	11,532,856	1,642,719	13,175,575

TABLE No. 2
TREES DISTRIBUTED TO PRIVATE LANDOWNERS
(July 1, 1945 to June 30, 1946)

County or District	Applicants	Conifers	Hardwoods	Totals
Algoma.....	18	36,045	1,721	37,766
Brant.....	159	168,416	65,393	233,809
Bruce.....	123	142,642	28,683	171,325
Carleton.....	66	35,190	10,949	46,139
Cochrane.....	3	1,595	115	1,710
Dufferin.....	51	58,437	4,352	62,789
Dundas.....	41	30,892	16,696	47,588
Durham.....	148	601,600	47,328	648,928
Elgin.....	181	424,299	58,448	482,747
Essex.....	141	98,804	25,764	124,568
Frontenac.....	32	31,948	10,182	42,130
Glengarry.....	36	12,897	4,939	17,836
Grenville.....	19	12,165	1,827	13,992
Grey.....	226	210,123	26,056	236,179
Haldimand.....	109	99,542	35,247	134,789
Haliburton.....	36	61,525	3,835	65,360
Halton.....	111	156,754	29,799	186,553
Hastings.....	58	90,855	13,332	104,187
Huron.....	112	84,716	39,378	124,094
Kenora.....	5	9,025	1,350	10,375
Kent.....	56	120,885	16,560	137,445
Lambton.....	116	201,190	17,264	218,454
Lanark.....	27	33,675	4,961	38,636
Leeds.....	68	50,030	11,187	61,217
Lennox and Addington.....	34	48,900	6,758	55,658
Lincoln.....	94	43,583	14,759	58,342
Manitoulin.....	6	8,300	3,900	12,200
Middlesex.....	219	261,679	39,720	301,399
Muskoka.....	160	426,014	18,689	444,703
Nipissing.....	6	7,325	115	7,440
Norfolk.....	279	557,981	51,559	609,540
Northumberland.....	98	130,360	26,785	157,145
Ontario.....	207	333,191	36,330	369,521
Oxford.....	124	231,090	43,091	274,181
Parry Sound.....	72	372,300	8,680	380,980
Patricia.....				
Peel.....	198	223,105	35,979	259,084
Perth.....	70	58,522	38,470	96,992
Peterborough.....	212	184,345	23,256	207,601
Prescott.....	12	23,206	5,375	28,581
Prince Edward.....	34	26,805	3,862	30,667
Rainy River.....	4	990	.....	990
Renfrew.....	29	20,650	4,030	24,680
Russell.....	14	18,261	1,418	19,679
Simcoe.....	465	1,007,265	67,637	1,074,902
Stormont.....	23	22,277	12,414	34,691
Sudbury.....	12	7,900	4,270	12,170
Thunder Bay.....	9	18,925	1,425	20,350
Timiskaming.....	10	6,525	.....	6,525
Victoria.....	51	72,970	9,505	82,475
Waterloo.....	153	181,265	37,151	218,416
Welland.....	151	104,115	25,913	130,028
Wellington.....	81	74,861	18,626	93,487
Wentworth.....	123	153,077	26,749	179,826
York.....	812	663,194	111,061	774,255
Totals.....	5,696	8,062,231	1,152,893	9,215,124

TABLE No. 3
NUMBER OF TREES DISTRIBUTED EACH YEAR—1937-1946

	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
Conifers.....	9,247,200	9,984,368	13,963,646	13,831,098	10,946,196	9,480,743	8,434,371	9,232,205	9,649,424	11,532,856
Hardwoods.....	1,350,371	1,740,752	2,487,607	2,907,437	2,327,438	1,621,904	1,896,198	1,767,174	1,631,557	1,642,719
Cuttings.....	418,173	527,415	470,653	528,162	237,665	200,540	192,348	.....	.....	.....
Totals.....	11,015,744	12,252,535	16,921,906	17,266,697	13,511,299	11,303,187	10,522,917	10,999,379	11,280,981	13,175,575

DIVISION OF RESEARCH

The Research Division completed a year of expansion during 1946 despite the fact that competent research personnel are difficult to obtain at any time, and particularly so under existing conditions of active competition from industry and educational institutions.

During the year three additional staff members were given full time employment; a botanical geneticist, a mammalogist, specializing in wildlife; and a fisheries biologist. It is hoped to be able to add further to the staff when competent, thoroughly trained people are available.

Because of the nature of research work, and the Division's stage of development, it is felt that only the highest grade of staff available should be considered for permanent appointments.

The urgency of many of the investigations looking to the expansion and continuity of forest operations, remains unchanged, and in many cases has been accentuated by the cumulative results of war wastage and the growing need for more efficient utilization and protection.

The Division's whole field of work has been broadened by the amalgamation of the Game and Fisheries and Lands and Forests Departments.

The following is a summary of the work carried out during the fiscal year 1946-47. Separate special reports have been made on all completed phases of the work.

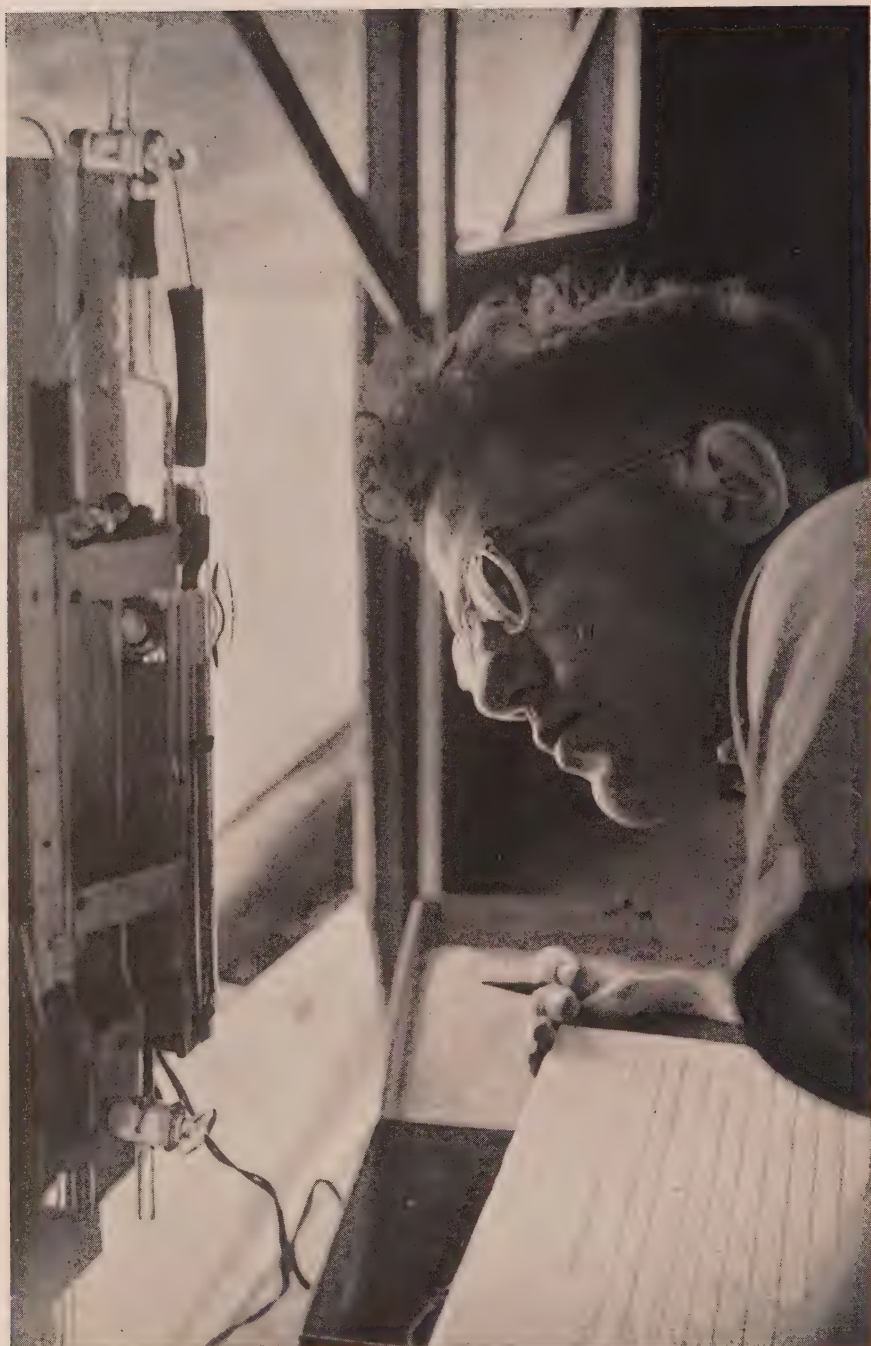
The following is a summary of people employed by this Division during the year:

<i>Permanent</i>	4 Foresters
	1 Mechanical Engineer
	1 Soils Specialist
	—
	6
<i>Continuous Temporary</i>	1 Forester Geneticist
	1 Chemist
	3 Draughtsmen
	3 Mechanics
	1 Building Superintendent
	—
	9
<i>Casual (Students)</i>	30 Forestry undergraduates
	18 Biology undergraduates
	6 Other Course undergraduates
	9 High School Students
	—
	63

The program covered during the year is outlined under the following headings:

I. *Biological Studies*

Silviculture
Soils
Smelter Fumes
Forest Genetics



ANALYZING THE SULPHUR-DIOXIDE CONTENT OF THE AIR FROM AN AIRCRAFT.

Artificial Reforestation by Seeding
Game and Fisheries
Forest Pest Control

II. *Economic and Management Studies.*

III. *Mechanical and Electrical Investigations.*

I. BIOLOGICAL

Silviculture:

The general object of these studies is to obtain information for sustained forest management. The work of the Research Division in the period reported on was undertaken to determine the adequacy of stocking of desirable species following cutting and fire and to devise methods to correct deficiencies. Experiments are or will be set up to check the results from recommended procedures in actual practice.

Surveys under this heading were carried on in the following areas in 1946:

- (1) Northern Clay Belt in the Kapuskasing District. This survey was under the direction of Professor R. C. Hosie and was originally organized in 1945 as a cooperative effort with the University and the Spruce Falls Power & Paper Co. The 1946 survey was intended to complete the work of 1945. A report has been published on both seasons' work.
- (2) In the Goulais River area north of Sault Ste. Marie. This work was undertaken in 1945 to study the effects of logging on a mixed stand and was undertaken as a cooperative effort with the Dominion Government. The main effort during the past summer was to relocate sample plots set out during the late 20's. No report has as yet been issued by the Dominion Forest Service who control this project.
- (3) In the Port Arthur and Kenora Districts. These surveys were undertaken to study regeneration following logging and fire. The species studied were mainly spruce, jack pine and poplar. The work was organized by the Research Division and was under the general direction of Mr. Peter Addison and Mr. Wilson Cram, Regional Foresters at Port Arthur and Kenora respectively. The field work was conducted by A. P. Leslie and H. C. Larsson, assisted by 18 students. Some 150,000 acres were examined during the season.

Soils:

The main object of this work is the separation of agricultural and forest soils and the classification of forest soils to ensure their most productive use. It was carried on under the direction of G. A. Hills. Field work was mainly in the Cochrane District and covered approximately 50,000 acres. A soil analysis laboratory was established at the Southern Research Station near Maple, Ontario. The results of these soil surveys can be used as a guide to land settlements and will also define the area of the Province which should be used for the growing of forest products.

Smelter Fumes:

This study is a continuation of the work of 1944-45 to determine damage to the forest by fumes from smelters at Sudbury and Falconbridge. Field work consisted of aerial sampling in the smelter smoke and on the ground using an

automatic recorder in the plane. Automatic ground recorders have now been set up at Bear Island, Emerald Lake, Skead, Capreol, Crystal Falls, Burwash and Lake Penage. The assistance of Mr. A. W. McCallum, Pathologist of the Dominion Department of Agriculture, and Dr. George Duff, of the University of Toronto, was obtained in studying pathological effects on trees and the deterioration of killed material. Meteorological effects were studied by the Dominion Meteorological Service. A secondary laboratory site was selected near Thessalon for controlled experiments in fumigation to be made in 1947.

Forest Genetics:

The services of a competent geneticist, Dr. C. C. Heimburger, were obtained in August of 1946. Dr. Heimburger will proceed with his work on the selection of a blister rust resistant strain of white pine and an aspen which will combine good growth, disease resistance and good pulping qualities. He has also started the establishment of an arboretum at Maple of all declimatized trees.

Artificial Reforestation by Seeding:

This project dealing mainly with the use of coated seed on burned areas commenced in the fall of 1946 and several burned areas were sown experimentally by hand and from an airplane. Seeds were coated at the Maple station using a combination of insecticides, rodent repellents and fertilizers.

A study of the seeding habits of pines, particularly red pine, was started this year under the direction of Dr. George Duff, of the University of Toronto, assisted by two undergraduates. This work is necessary because little is known of the seeding habits of trees or why their seed production is sporadic. It is thought that as a result of this work it may be possible finally to produce regular cone crops from plantation pine at an economic cost. This will reduce the uncertainty now attending naturally grown supplies of seed.

Game and Fish:

The main object of these studies is to increase the game and fish resources of the Province. Fisheries surveys were carried out during this season under the direction of Dr. W. J. K. Harkness and Dr. F. E. J. Fry in Algonquin, Sibley and Quetico Parks and in Lake Erie and Lake Ontario. The principal studies were directed towards the effect of coarse fish on game and commercial species and the improvement resulting from a balanced removal of all species or, in some cases, a heavy removal of coarse fish and restocking with desirable species.

Studies of habitat relationships such as water temperatures and food content in relation to fish numbers and health were continued at the Fish Laboratory near Whitney. Studies of planting Atlantic salmon were made in Duffin's Creek near Pickering, Ontario.

Wildlife studies were carried out under the direction of Dr. C. H. D. Clarke, assisted by 8 students, in Algonquin Park. A wilderness area of 30.5 sq. miles for the study of wildlife under natural conditions was established in Algonquin Park in 1944 and work was continued in this area. The principal study was directed towards obtaining a method of assessing animal populations that can be applied in forest and game management. The problem of animal diseases also received attention.

Forest Pest Control:

The object of this project was a thorough investigation of the possibility of controlling major forest insect infestations by the use of insecticides applied from aircraft. Following the program of 1945 when 100 square miles were sprayed, an additional 40 square miles were sprayed in the Thunder Bay district. This work organized by the Department received important contributions from the R.C.A.F. and the Science Service of the Dominion Department of Agriculture. The efficiency of the experiemnt was greatly increased over 1945, when five Canso planes under contract were used. In 1946 one Canso plane owned by the Department covered almost half the area sprayed in 1945. The total cost of the spraying operation amounted to \$3.23 per acre. Application of DDT ranged from 2 to 4 pounds per acre and a kill of budworm of over 90 per cent resulted from the 2 pound per acre application. A report has been issued.

II. ECONOMIC AND MANAGEMENT STUDIES

Some further work was carried out in connection with the study of stumpage as a basis for charges in timber disposal. All operators in Southern Ontario were canvassed as to willingness to cooperate in these studies, but no proper field work could be carried on because staff with the proper qualifications for this work are not yet available.

A study of the economics of cutting small pine was commenced in the southeastern part of Ontario by Mr. M. V. B. Ardenne, assisted by two students. This work would aid the Department and the operators in determining where profit ends and loss begins in the cutting of small timber. The result should make it easier to retain small timber for its full economic rotation.

III. MECHANICAL AND ELECTRICAL INVESTIGATIONS

The main mechanical building of the Research Station near Maple was completed and mechanical work was undertaken. Tests of various commercial forest fire pumping units were carried out as well as tests of fungicides for preventing decay of fire hose. A prototype cone extracting machine using infra red heat lamps was constructed. Some 40 jeeps and vehicles purchased by the Department were overhauled before being put into field use.

A superintendent's residence was completed, also a garage for storage of eight vehicles. A complete soils laboratory for physical and chemical analysis of soils was set up. A start was made on a fisheries research laboratory which will feature the unique "artificial lake", where any condition found in natural lakes may be recreated in the laboratory and thus aid in obtaining knowledge of fish that will facilitate artificial and natural stocking and fish culture of all kinds. A test well for water supply to this laboratory was drilled and an adequate supply of high quality water assured.



A LOW ALTITUDE VERTICAL AERIAL PHOTOGRAPH OF THE SOUTHERN EXPERIMENTAL STATION
AT MAPLE, ONTARIO.

DIVISION OF SURVEYS AND ENGINEERING

The further development of the natural resources increased the activities of the Department as a whole and this was reflected in the work undertaken by this Division. In so far as qualified personnel were available, efforts were made to cope with the backlog of field and office work that had accumulated as the result of personnel shortages during the past years.

In the Forest Inventory Project as undertaken by the Department over a five year plan, the Division of Surveys and Engineering is responsible for covering 18,000 square miles by vertical photography and the preparation of planimetric maps to a scale of four inches to one mile. An area of 5,054 square miles has been photographed during the past fiscal year. Ground control surveys were undertaken in the Districts of Cochrane and Thunder Bay to provide accurate and sufficient ground control points in areas previously unsurveyed.

The preservation of our survey records, representing land surveys carried out over the length and breadth of the Province over the past 150 years, is most important. The work of microfilming the field books was commenced this year and the films stored in fireproof containers.

The following aerial and ground surveys were undertaken during the fiscal year ending March 31st, 1947:

GROUND SURVEYS SECTION

Survey instructions were issued for the following surveys:—

Crown Surveys

1. Base line survey in the District of Cochrane, extending from Maund Township to the boundary between the Provinces of Ontario and Quebec. This survey required to provide ground control for aerial photography in connection with the forest inventory project.
2. Re-establishing an original survey corner on Gold Island, Township of Cody, District of Cochrane.
3. Survey of additional building lots at Longlac, in the Township of Daley, District of Thunder Bay.
4. Survey of additional building lots in the Townsite of Alexandra, Township of Shackleton, District of Cochrane.
5. Resurvey of part of the boundary between townships 83 and 84, District of Thunder Bay.
6. Survey to locate building encroachments on Crown Lands, below high water mark, in the Improvement District of Wasaga Beach, Township of Sunnidale.
7. Retracement Survey of the boundaries of the Township of Hearst. (Survey costs borne by the Department of Mines).
8. Retracement survey of the north, west and south boundaries of the Township of McElroy (Survey costs borne by the Department of Mines).
9. Control traverse of part of the Aguasabon River, District of Thunder Bay.
10. Retracement survey of part of the third concession from lots 1 to 12 inclusive, Township of Methuen, County of Peterborough.

11. Retracement survey of certain boundaries in the Townships of Rolph, Head, Maria, Clara, Cameron, Papineau and Mattawan. (Survey costs borne by The Hydro-Electric Power Commission of Ontario).
12. Retracement of boundary between concessions VII and VIII from lot 31 to the west boundary of the Township of Cornwall and the establishment of certain corners of Township lots.
13. Retracement survey to delimit the boundaries of lots 37, 38, 39 and 40, Con. II, N.R. Township of Watten, District of Rainy River.

Municipal Surveys

- No. 818—Jarvis Street, between King and Queen Streets, City of Toronto.
- No. 820—Parts of the line between concessions IX and X, Township of North Walsingham, County of Norfolk.
- No. 821—South boundary of the township of Lake, County of Hastings, across Concession 5 and the line between Concessions 1 and 2, Lots 1 to 32 inclusive.
- No. 822—Boundary line between the townships of Methuen and Belmont in the County of Peterborough, from the 5th concession line easterly to the boundary between the Townships of Marmora and Lake.

Private Surveys on Crown Lands

Under authority of Section 37 of the Public Lands Regulations, 388 summer resort locations were surveyed and the returns of survey filed in the Department. One hundred and thirty surveys of this number were surveyed under direct departmental instructions to the surveyor where the applicant paid in the sixty dollar survey fee as specified in Section 37 of the Public Lands Regulations.

Under provisions of the Mining Act, the survey returns of 840 mining claims were filed in the Department for examination and approval.

Townsite Subdivisions

The following subdivisions of land affected by the provisions of the Townsites Act were surveyed on privately-owned lands, and approved by Orders-in-Council. A cash consideration was accepted by the Crown in lieu of selecting one quarter of the number of lots as surveyed.

<i>Designation of Subdivision</i>	<i>Date of Order-in-Council</i>
1. Part of Mining Claim MR 6252, Township of Cairo in the Townsite of Matachewan, District of Timiskaming.....	April 9th, 1946.
2. Part of mining claim T.B. 4882, Township of Summers, Dillabough Townsite, District of Thunder Bay.....	Oct. 15th, 1946.
3. Part of Lot 7, Concession 5, Township of Merritt, District of Sudbury.....	Oct. 15th, 1946.
4. Part of mining claim MR 9947 and MR 10263, Township of Cairo, in the Townsite of Matachewan, District of Timiskaming.....	Oct. 15th, 1946.
5. Part of lot 1, Concession 3, Township of Mountjoy, District of Cochrane.....	Nov. 14th, 1946.

Map Publications

The following maps and booklets were revised and printed:—

Map 21c—District of Timiskaming and Parts of Sudbury and Nipissing. 5,000 copies of 1944 edition reprinted with some revisions to township names and district boundary colour scheme changed to full colours.

Map 23a—District of Thunder Bay, revised edition; 5,000 copies lithographed in full colours.

Map 21a—Southern Part of Province of Ontario. Reprint edition of 5,000 copies.

Booklet—"List of Townships" revised and reprinted. 1,000 copies.

List of—Maps and plans issued by the Division of Surveys and Engineering—revised and reprinted 5,000 copies.

A group of five maps was compiled, reproduced and lithographed relative to the book "Algonquin Story" published under the supervision of the Division of Operation and Personnel—10,000 copies of each of the following maps printed:

- (a) Topographic map of Huron and Ottawa Territory.
- (b) Area of Algonquin Provincial Park.
- (c) Exploration map of Huron and Ottawa Territory.
- (d) Map showing colonization roads in and around Algonquin Provincial Park.
- (e) Watershed map of Algonquin Provincial Park.

Distribution of Maps

This Division is the central point for map distribution covering all Provincial issues and also the National Topographic Series for Ontario, as published by the Department of Mines and Resources in Ottawa. These maps are for sale to the public and distributed without charge for official Departmental use and publicity purposes. The acquisition of Crown Lands for summer resort purposes has increased considerably over past years, which, together with additional tourist activity, has resulted in an increased demand for maps as compared to the number distributed during the previous fiscal year.

Distribution of Maps

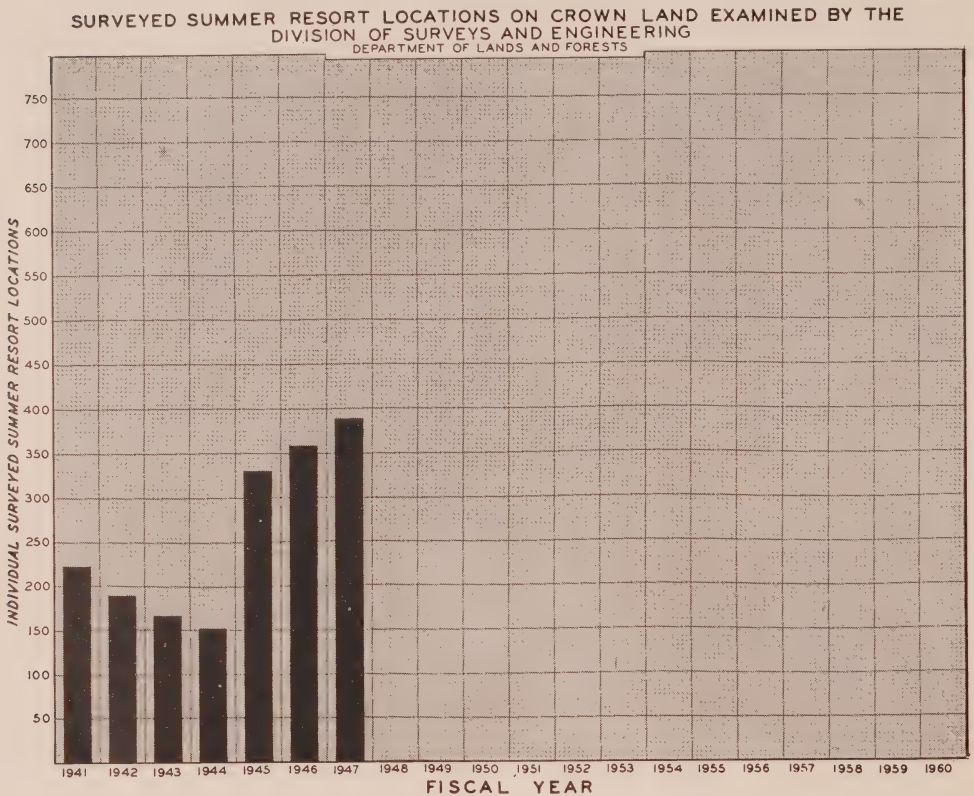
National Topographic Series.....	10,535
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Provincial Maps

20A (Free Issue).....	3650
District Maps.....	7378
Island Maps.....	600
42A (Township).....	1772
33A (Electoral).....	141
Miscellaneous.....	3103

Total.....	16,644	16,644
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Grand Total.....	27,179
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Of the total number of maps distributed, approximately twenty per cent were distributed, without charge, for the official use of Provincial and Dominion Departments, Clergy, Red Cross and for educational and publicity purposes.

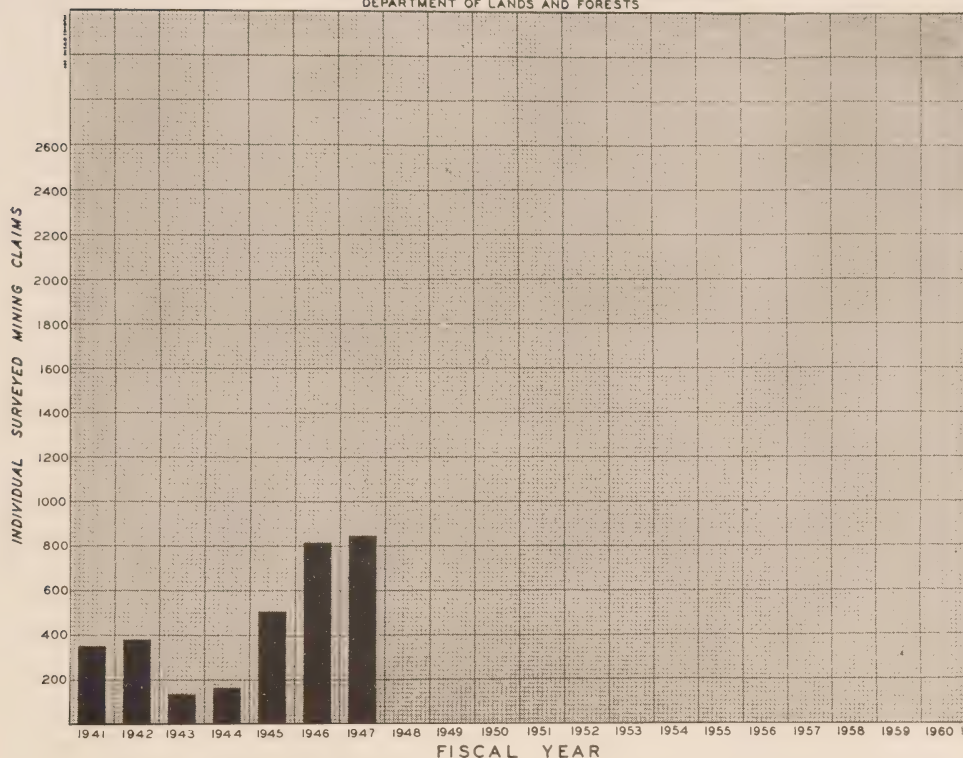
Cash receipts "over the counter" for maps, photostats and printing show an increase of approximately 30% over the previous year. The "over the counter" receipts represent 3,000 customers. Approximately an additional 5,000 over-the-counter enquiries were made by Departmental or Divisional personnel relative to maps and survey records.

5,000 letters of request for maps and copies of survey records were received and dealt with during the year. Revenue from this source shows an increase of 20% over the previous year.

Survey Records

This office has custody of all survey records of surveys made under instructions from this Department and other types of surveys affecting Crown lands. Copies are available to the public at the prescribed rates, and for official Departmental use. The returns of survey made each year comprising plans and field notes are registered, indexed and the field notes bound and filed. Numerous requests for copies or information pertaining to these survey records are received each year for Ground Survey purposes and as ground control for Aerial Photography and many other uses.

**SURVEYED MINING CLAIMS ON CROWN LAND EXAMINED BY THE
DIVISION OF SURVEYS AND ENGINEERING
DEPARTMENT OF LANDS AND FORESTS**



Number of Survey Records on File

Municipal Survey Plans (Approximately).....	800
Municipal Survey Field Notes (Approximately).....	800
Crown Land Survey Plans, mounted, filed flat, comprising original Townships, Townsites, Islands, Indian Reserves, and Miscellaneous.....	2,500
Rolled Plans—Same as above, and including Railways, Power Transmission Lines, Flooding Lakes and Island Traverses, Subdivisions, etc.....	4,300
Filed Flat in Volumes—Partial Township Plans, Island Plans, Mining Location Plans.....	7,000
Crown Land Survey Field Note Books (Representing some 2800 surveys).....	2,700
Miscellaneous Volumes—including Crown Land and Municipal Instruction Books, Letters Written, Letters Received and Letters Relating to Surveys, Field Note Volumes, Surveyors Letters, etc.....	350

In order to ensure preservation of the survey records, many of which are over 100 years' old and fast deteriorating with age, plans are being formulated for the treatment of original maps by a chemical process and the services of a bookbinder were obtained with the work of repairing and recovering all field note books and other volumes commenced in the latter part of January, 1947. Under this plan, the microfilming of all of the original survey records was also commenced in the latter part of January. By the end of this fiscal year, 1881 field note books and 94 other volumes representing a total of 259,000 pages had been microfilmed. For the present, it is planned to continue to use the original records and have the microfilmed negatives available for reproduction purposes in the event of the original records becoming indistinguishable with age.

It is planned to re-index and catalogue all of these records as time permits. In this connection the only progress made during this fiscal year was on the re-indexing of the field note books and the separation of all municipal survey records from the Crown Land Surveys. Plans only were formulated on the card index system for the re-indexing and cataloguing.

Photostating

In November, 1946, the Photostat Section was transferred from the Aerial Survey Section to the Ground Surveys under the supervision of the Map Office, which is the central point for the ordering of all photostatic material for this Department. A notable item was the supplying of some 25,000 photostatic copies of pages of field notes for the aerial mapping portion of the Forest Resources Inventory Programme.

The photostat service is available to other Departments of the Government, insofar as the copying of their records is concerned, at the prescribed rates. This service extends also to Commissions of the Government and the public for copies of records held in this Department and work pertaining thereto.

It is estimated that it costs 15c to produce one square foot of photostat copy. Some 45,000 square feet of photostat paper was used during the fiscal year. The following is the approximate square footage of photostatic paper used for Departmental Divisions and District Offices, other than this Division, during the year:—

DIVISIONS	
Accounts.....	130
Forest Protection.....	110
Land & Recreational Areas.....	310
Law.....	340
Main Office.....	120
Operation & Personnel.....	1,200
Reforestation.....	70
Research.....	210
Timber Management.....	2,000
Forest Resources Inventory.....	16,480
Fish & Wildlife.....	30
Total.....	21,000
—or 46½% of the Total	

DISTRICT OFFICES

Cochrane.....	5	
Fort Frances.....	410	
Geraldton.....	20	
Kapuskasing.....	140	
Pembroke.....	70	
Port Arthur.....	30	
Sault Ste. Marie.....	75	
Sioux Lookout.....	1	
Sudbury.....	135	
Tweed.....	30	
Chapleau.....	75	
Gogama.....	5	
Trent.....	90	
Total.....		1,086
—or 2½% of the Total		
GRAND TOTAL.....		22,086 Sq. Ft.
—or 49%		

The balance or approximately 51% of the paper used was for the official work of this Division and for reproduction work for other Departments of the Government and the general public.

Blue and OCE Printing

The making of Blue and OCE prints is done through sources other than this Department. The orders placed through the Map Office represented some 116,000 square feet of paper for the whole Department, including the District Offices. Ground Surveys alone used approximately 57,000 square feet of paper, for office use and re-sale purposes.

Through public demand a stock of prints taken from Township plans, covering Parry Sound District are now available in this office. These plans are a compilation of the original survey with the Aerial Photography work as taken from the National Topographic Series maps.

AERIAL SURVEYS SECTION

This Section covered 10,708 square miles with vertical photography during the above Fiscal Year.

Of this total, 9,772 square miles were for our own and other Departments of the Provincial Government, (including H.E.P.C.) while the remaining 936 square miles were for outside concerns.

Below is a table giving a breakdown of these figures.

	Area (Sq. Miles)	Totals
FOR OUTSIDE COMPANIES		
Owen Sound, Town Planning.....	15	
*J. A. Mathieu, Rainy Lake.....	388	
Union Gas Company.....	50	
Ontario-Minnesota P. & P. Co.....	323	
Bell Telephone Co.....	160	936
OTHER GOVERNMENT DEPARTMENTS		
Agriculture.....	73	
Highways.....	594	
*H.E.P.C.....	806	
*Mines.....	515	
Planning and Development.....	1,713	3,665
DEPARTMENT OF LANDS AND FORESTS		
*Talon Lake.....	28	
Rondeau Park.....	15	
Kenora District.....	678	
*Batchewana Extension.....	332	
*Inventory.....	5,054	6,107
Grand Total.....		10,708

*Denotes Mapping Included.

DIVISION OF TIMBER MANAGEMENT

During the season of 1946-47 there was still a strong demand for all kinds of forest products, resulting in continued activity in timber operations throughout the Province.

Although labor conditions were effected by the fact that prisoners-of-war were no longer available, this condition was to some extent offset by the return to bush operations of war service personnel and available civilians. As a consequence the timber operators were able to maintain production.

Weather conditions were generally favorable throughout the season enabling the operators to get their timber to the mills without delay.

A statement of timber cut during 1945-46 season and returned in 1946 is shown on Page 158, Table No. 1.

Statements showing production by administrative districts of the Province for the 1945-46 season are also shown on Pages 159-171, Tables No. 2 to 2L inclusive.

FOREST RESOURCES INVENTORY

A post war project of considerable importance "The Forest Resources Inventory" was organized and placed in operation early in the year. The method adopted after a thorough study of existing methods and the remarkable advances in aerial photography during the war involved a complete coverage of the forested area of the Province by the most up to date aerial photography. From this, planimetric base maps were to be prepared and volumetric estimates made from a combined use of aerial photographs and the standard methods of ground survey.

The area to be covered consisted of 140,000 square miles. Of this area the aerial photography and planimetric mapping on 125,000 square miles was let by contract to the Photographic Survey Company, Ltd., the balance of 15,000 square miles to be done by the Aerial Surveys Section of the Division of Survey and Engineering of the Department of Lands and Forests.

The Aerial Photography was underway by June 1st and continued throughout the summer and fall season. An area of 29,777 square miles of aerial photography was completed under contract and an additional area of photography was completed by the Department.

Planimetric mapping was underway by November and by February delivery of base maps from the contractor were started and 4,429 square miles were delivered by the end of the year.

Type mapping from aerial photographs was started on receiving delivery of base maps. An area of 3,600 square miles being completed by the end of the year ready for field checking and final checking of maps and completion of the inventory.

MANAGEMENT PLANS AND CONTROL

In writing more recent pulpwood and timber concession agreements in accordance with the Forest Management Act of 1947, clauses have been incorporated which provide for the submission of plans for the operation and management of the concession areas on a sustained yield basis or to maintain their production capacity. In order to supervise the preparation of these plans, the work has recently been put under the direction of a forester appointed for that purpose. It is his duty to prepare the outlines of the minimum requirements



LOADING TIMBER ON A TRUCK FROM A BOOM ON HERRIDGE LAKE.

for the compilation of plans to work in co-operation with the operators in their preparations, to analyze them when submitted, and put into effect the control necessary to assure the application of the plans as approved by the Department.

Additional foresters have been assigned to supervise current management projects in the Districts, and as the plans of the various operators are approved and additional Crown management units are established, management foresters will take over active control of this phase of timber management.

As at the end of March, 1947, fifty agreements have been written, covering approximately 60,000 square miles, which contain clauses providing for some form of management control through the submission before beginning operations.

During the past year the available information on the preparation of management plans of other forest authorities was reviewed, as were the agreements, to obtain a basic understanding of their requirements. A manual was prepared outlining the minimum requirements for working or management plans, operating plans, and annual cutting applications and the compilation of forest survey data collected to form a basis for such plans and applications. When completed this manual was forwarded to all the operators concerned.

Plans are now being received from operators, a substantial indication that the industry is prepared to co-operate in this program. Many more are actively engaged in the preparation of plans, but owing to the shortage of foresters available for conducting this work as a result of war conditions, there has been considerable delay. Now that the war is over it is expected that the conditions will be stabilized considerably and a great expansion in this program will become evident.

Arrangements have been made to have a closer check on proposed operations through the requirements of more detail in annual cutting applications and the subsequent inspection of woods operations. By means of the control planned there will unquestionably be much better utilization and less opportunity for the continuation of wasteful practices which were difficult to control under war conditions.

TIMBER SALES—1946-47

Details of the 78 new sales of timber made during the season, indicate that 560 square miles of timber limits were sold.

During the season 53 timber licences, comprising 158.25 square miles, were abandoned.

The status of the timber licensed areas in Ontario as at March 31st, 1947, was therefore as follows:

	Area No. Sq. Miles	
Licences and Renewals Issued 1946-47.....	878	11,276.25
Licences, in Suspense:.....	28	433.75
Total	906	11,710.00

This is 702.25 square miles less than that under licence as at March 31st of the previous year. The 934.25 square miles not accounted for by new sales and abandonments, is the result of adjustments in the areas of individual timber licences.

The remainder of the candidates were either recommended for licence after further experience, or were not successful.

AREA UNDER PULPWOOD AND TIMBER AGREEMENT

FISCAL YEAR	SQ. MILES
1937-38.....	54,625.50
1938-39.....	62,643.00
1939-40.....	65,330.00
1940-41.....	65,497.50
1941-42.....	66,509.50
1942-43.....	71,636.50
1943-44.....	56,690.50
1944-45.....	59,353.00
1945-46.....	53,754.00
1946-47.....	56,745.00

TABLES

Table No. 1—Statements of amounts of timber cut during the year ending March 31, 1946.

Table No. 2—Classification of annual timber returns for the year ending March 31, 1946, by Districts.

- 2 Algonquin
- 2a. Cochrane
- b. Fort Frances
- c. Geraldton
- d. Kapuskasing
- e. Kenora
- f. North Bay
- g. Parry Sound
- h. Port Arthur
- i. Sault Ste. Marie
- j. Sioux Lookout
- k. Sudbury
- l. Tweed

Table No. 3—Exported pulpwood—cords, for the year ending March 31, 1946.

Table No. 4—Exported pulpwood—species, for the year ending March 31, 1946.

Table No. 5—Timber areas sold during the year ending March 31, 1947.

Table No. 6—Timber areas abandoned during the year ending March 31, 1947.

Table No. 7—Timber areas transferred during the year ending March 31, 1947.

TABLE No. 1
STATEMENT OF AMOUNT OF TIMBER CUT
FOR THE YEAR ENDING MARCH 31, 1946

Species	Pieces	Feet	Cords	Equivalent Volume in Cubic Feet
White and Red Pine.	2,408,570	114,356,073		30,549,783
Jack Pine.....	4,870,136	73,804,189	286,625.72	60,449,730
Spruce.....	1,987,256	43,894,185	1,971,579.91	193,286,173
Balsam.....	36,116	548,966	165,413.69	15,145,749
Hemlock.....	521,732	20,154,096		5,462,014
Birch.....	218,998	14,812,385		3,214,204
Maple.....	110,285	5,942,131		1,527,094
Other Hardwoods....	72,453	4,086,550		963,978
Poplar.....	442,674	7,839,234	29,584.91	6,086,565
Cedar.....	6,973	87,969		46,217
Tamarac.....	1,083	14,289		6,776
	10,676,276	285,540,067	2,453,204.23	316,738,283
Species	Pieces	Lin. Ft.	Cords	Cu-Ft.
Ties.....	246,571			739,713
Poles.....	116,711			1,108,511
Posts.....	20,730			31,095
Fuelwood.....			19,777.08	1,779,930
Lagging and Mining Timber.....		41,413		414,503
Piling.....				
	384,012	41,413	19,777.08	4,073,752

TABLE No. 2
ALGONQUIN DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		225,651	7,449,400	\$18,623.43	\$12,546.93	\$31,170.36
Pine Booms.....		81	5,798	14.50		14.50
Jack Pine Logs....		90,024	1,259,934	3,149.86	772.45	3,922.31
Jack Pine Booms...		70	6,442	16.11	2.78	18.89
Ash Logs.....		213	10,357	25.89		25.89
Balsam Logs.....		3,324	38,429	76.86	2.52	79.38
Basswood Logs.....		1,870	74,597	186.47	285.54	472.01
Birch Logs.....		44,654	2,818,641	7,046.62	5,818.85	12,865.47
Cedar Logs.....		73	1,141	1.71	1.64	3.35
Cherry Logs.....		233	7,724	19.31	22.48	41.79
Elm Logs.....		380	20,969	52.42	78.78	131.20
Hemlock Logs.....		73,044	2,977,527	4,466.29	421.57	4,887.86
Maple Logs.....		21,883	1,166,244	2,915.59	3,277.83	6,193.42
Oak Logs.....		3	74	.18	.33	.51
Poplar Logs.....		150,420	3,056,909	6,113.84	4,889.90	11,003.74
Spruce Logs.....		51,036	1,098,033	2,196.00	941.52	3,137.52
Spruce Booms.....		554	69,675	174.18	178.91	353.09
Fuelwood (Hard)...	62.70			31.35		31.35
Ties.....		115		11.50	14.50	26.00
Posts.....		610		12.20	19.20	31.40
Poles.....		3,530		1,095.25	906.75	2,002.00
Poles (Cu-Ft.).....		33,819	279,066.53	9,750.98		9,750.98
Balsam Pulpwood...	793.34			555.33		555.33
Poplar Pulpwood...	705.92			282.38	168.38	450.76
Spruce Pulpwood...	10,154.60			14,216.44	135.66	14,352.10
Jack Pine Pit Props.	1,272.54			509.02	763.12	1,272.14
J. P. Props Exported	1,272.54				318.13	318.13
				\$71,543.71	\$31,567.77	\$103,111.48

Cut Under Permit

Hemlock Logs.....	450,000 Ft. B. M.
Birch Logs.....	450,000 Ft. B. M.
Pine Logs.....	240,643 Ft. B. M.
Fuelwood (Hard)....	2,303.80 Cords
Spruce Pulpwood....	1,700.47 Cords
Ties.....	416 Pieces
Poles.....	2,759 Pieces
Posts.....	515 Pieces

TABLE No. 2A
COCHRANE DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		22,594	2,143,852	\$ 5,359.61	\$ 13,549.74	\$18,909.35
Pine Booms.....		7	1,773	4.43	13.73	18.16
J. Pine Logs.....		1,295,300	14,703,315	29,252.13	72,230.06	101,482.19
J. Pine Booms.....		2,035	110,293	275.73	506.27	782.00
Balsam Logs.....		17,799	343,840	687.66	1,548.40	2,236.06
Birch Logs.....		6,281	56,105	140.26	205.08	345.34
Cedar Logs.....		53	240	.36	1.32	1.68
Poplar Logs.....		133,075	1,920,709	3,841.42	5,501.64	9,343.06
Spruce Logs.....		398,475	9,418,957	18,837.90	55,808.47	74,646.37
Spruce Booms.....		6,272	544,799	1,361.96	2,943.83	4,305.79
Tamarac Logs.....		10	105	.16	1.19	1.35
Fuelwood (Hard)...	1,924.70			962.32	241.97	1,204.29
Fuelwood (Soft)...	3,702.96			925.74	1,390.94	2,316.68
Ties.....		2,921		292.10	175.26	467.36
Poles.....		9		3.50	5.75	9.25
Posts.....		738		14.76	41.45	56.21
Balsam Pulpwood..	7,141.97			5,018.18	1,813.75	6,831.93
Jack Pine Pulpwood	1,720.14			688.06	721.25	1,409.31
Poplar Pulpwood...	7,062.64			2,825.06	2,118.08	4,943.14
Spruce Pulpwood...	320,361.29			448,319.26	115,809.77	564,129.03
Spruce Pit Props...	1,210.26			1,694.36	290.60	1,984.96
Jack Pine Pit Props.	13,843.17			15,537.37	11,127.61	16,664.98
Pulpwood Exported.						
Balsam.....	143.72				93.42	93.42
Jack Pine.....	410.63				102.66	102.66
Spruce.....	13,867.72				9,014.00	9,014.00
Spruce Pit Props.	1,210.26				786.69	786.69
J. Pine Pit Props.	13,843.17				3,460.72	3,460.72
				\$526,042.33	\$299,503.65	\$825,545.98

Cut Under Permit

Balsam Logs.....	1,401 Ft. B. M.
Birch Logs.....	3,072 Ft. B. M.
Cedar Logs.....	1,147 Ft. B. M.
Jack Pine Logs.....	2,283,689 Ft. B. M.
Poplar Logs.....	934,148 Ft. B. M.
Spruce Logs.....	620,356 Ft. B. M.
Fuelwood (Hard)...	10,851.77 Cords
Fuelwood (Soft)....	10,000.00 Cords
Spruce Pulpwood....	42,802.95 Cords
Ties.....	18,057 Pieces
Poles.....	2,202 Pieces
Posts.....	1,881 Pieces

TABLE NO. 2B
FORT FRANCES DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		203,075	10,803,135	\$27,007.81	\$35,379.81	\$62,387.62
Pine Booms.....		1,199	269,138	672.83	1,171.59	1,844.42
Jack Pine Logs.....		234,718	3,364,649	5,192.96	10,341.53	15,534.49
Jack Pine Booms....		3,486	226,643	566.60	608.91	1,175.51
Ash Logs.....		136	2,380	5.95	5.95	11.90
Birch Logs.....		105	2,886	7.21	7.21	14.42
Poplar Logs.....		25,726	326,689	653.37	522.53	1,175.90
Poplar Booms.....		314	16,574	41.43	32.94	74.37
Spruce Logs.....		15,462	303,058	606.13	819.73	1,425.86
Spruce Booms.....		378	48,957	122.38	191.52	313.90
Poles.....		205		51.25		51.25
Posts.....		7,130		142.60		142.60
Fuelwood (Soft)....	642.00			160.50	119.30	279.80
Balsam Pulpwood...	215.10			150.57	24.22	174.79
Jack Pine Pulpwood..	25,875.83			10,350.33	4,095.30	14,445.63
Poplar Pulpwood....	3,829.15			1,531.67	470.27	2,001.94
Spruce Pulpwood....	44,465.89			62,252.25	11,275.37	73,527.62
Pulpwood Exported						
Jack Pine.....	16,616.55				4,154.12	4,154.12
				\$109,515.84	\$69,220.30	\$178,736.14

Cut Under Permit

Jack Pine Logs.....	21,673 Ft. B. M.
Pine Logs.....	26,984 Ft. B. M.
Poplar Logs.....	113,100 Ft. B. M.
Spruce Logs.....	20,104 Ft. B. M.
Poles.....	21 Pieces
Posts.....	7,687 Pieces
Fuelwood (Hard)....	160.00 Cords
Fuelwood (Soft)....	686.10 Cords
Balsam Pulpwood....	138.24 Cords
Jack Pine Pulpwood..	503.65 Cords
Poplar Pulpwood....	2,554.48 Cords
Spruce.....	1,002.68 Cords

TABLE No. 2c
GERALDTON DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Jack Pine Logs.....		180,359	2,318,502	\$ 5,684.48	\$11,119.34	\$16,803.82
Jack Pine Booms...		367	35,258	88.15	165.47	253.62
Poplar Logs.....		174	2,565	5.13	5.13	10.26
Spruce Logs.....		46,029	574,821	1,149.64	3,298.17	4,447.81
Spruce Booms.....		2,155	362,192	905.47	2,147.39	3,052.86
Poles (Cu-Ft.).....		18,310	191,590.61	7,568.14		7,568.14
Balsam Pulpwood..	27,578.04			19,304.62	11,114.52	30,419.14
Jack Pine Pulpwood	42,719.06			17,087.62	685.92	17,773.54
Poplar Pulpwood...	4,132.32			1,652.92		1,652.92
Spruce Pulpwood...	276,421.18			386,989.65	50,629.59	437,619.24
Pulpwood Exported						
Balsam.....	13,232.28				8,600.98	8,600.98
Jack Pine.....	8,416.66				2,104.16	2,104.16
Spruce.....	210,411.25				136,767.31	136,767.31
				\$440,435.82	\$226,637.98	\$667,073.80

Cut Under Permit

Jack Pine Logs..... 12,190 FT. B. M.
Poplar Logs..... 1,642 Ft. B. M.
Fuelwood (Soft)..... 3,857 Cords
Spruce Pulpwood..... 61 Cords

TABLE No. 2D
KAPUSKASING DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Jack Pine Logs.....		55,151	976,164	\$ 2,062.16	\$ 3,963.08	\$6,025.24
Jack Pine Booms...		198	19,057	47.63	89.97	137.60
Birch Logs.....		15	387	.97	.97	1.94
Poplar Logs.....		18,742	573,517	1,147.05	693.80	1,840.85
Spruce Logs.....		585,488	9,447,385	18,894.76	25,966.40	44,861.16
Spruce Booms.....		2,686	309,211	773.02	1,290.74	2,063.76
Piling (Lin-Ft.)....		203	7,555	188.88		188.88
Piling (Cu-Ft.)....		70,934	414,503.93	7,461.07		7,461.07
Fuelwood (Hard)...	2,090.79			1,045.39	104.53	1,149.92
Fuelwood (Soft)....	288.62			72.16	36.16	108.32
Ties.....		1,630		163.00	32.60	195.60
Poles (Cu-Ft.)....		909	11,585.43	461.13		461.13
Poles.....		941		282.00	282.00	564.00
Balsam Pulpwood..	32,663.94			22,864.76	17,599.93	40,464.69
Jack Pine Pulpwood	2,193.67			877.47	33.99	911.46
Poplar Pulpwood...	25.18			10.07	13.85	23.92
Spruce Pulpwood...	408,405.72			571,768.01	108,474.88	680,242.89
Pulpwood Exported						
Jack Pine.....	500.00				125.00	125.00
Balsam.....	1,880.94				1,222.60	1,222.60
Spruce.....	278,047.64				180,730.95	180,730.95
				\$628,119.53	\$340,661.45	\$968,780.98

Cut Under Permit

Poplar Logs.....	279,266 Ft. B. M.
Spruce Logs.....	622,741 Ft. B. M.
Poles.....	243 Pieces
Posts.....	550 Pieces
Fuelwood (Hard)....	1,381.95 Cords
Fuelwood (Soft)....	3,782.77 Cords
Spruce Pulpwood....	19,289.02 Cords

TABLE NO. 2E
KENORA DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		4,004	226,605	\$ 566.50	\$ 932.08	\$ 1,498.58
Pine Booms.....		497	67,050	167.61	258.62	426.23
Jack Pine Logs.....		49,707	863,806	1,841.79	3,799.98	5,641.77
Jack Pine Booms...		531	30,495	76.23	172.34	248.57
Poplar Logs.....		1,411	21,709	43.42	21.71	65.13
Spruce Logs.....		12,690	273,685	547.36	1,386.98	1,934.34
Spruce Booms.....		1,392	237,675	594.17	1,050.12	1,644.29
Piling (Lin-Ft.)....		575	29,458	79.99		79.99
Fuelwood (Hard)...	54.48			27.24	8.20	35.44
Fuelwood (Soft)....	3,096.31			774.08	369.15	1,143.23
Ties.....		21,665		2,166.50	912.48	3,078.98
Poles (Cu-Ft.).....		3,682	4,617.36	138.52		138.52
Poles.....		131		33.25	13.10	46.35
Posts.....		804		16.08	64.32	80.40
Balsam Pulpwood...	6,414.14			4,489.89	252.44	4,742.33
Jack Pine Pulpwood	62,299.99			24,920.00	8,175.71	33,095.71
Poplar Pulpwood...	297.70			118.68	27.00	145.68
Spruce Pulpwood...	90,251.34			126,351.89	15,417.27	141,769.16
				\$162,953.20	\$32,861.50	\$195,814.70

Cut Under Permit

Pine Logs.....	60,229 Ft. B. M.
Jack Pine Logs.....	37,089 Ft. B. M.
Spruce Logs.....	105,233 Ft. B. M.
Piling (Lin-Ft.).....	13,048
Fuelwood (Soft).....	5,161 Cords
Spruce Pulpwood.....	2,836 Cords

TABLE NO. 2F
NORTH BAY DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		927,676	49,075,583	\$122,688.91	\$319,563.24	\$442,252.15
Pine Booms.....		2,505	432,110	1,080.24	2,397.02	3,477.26
Jack Pine Logs....		217,000	2,558,316	5,783.84	8,856.78	14,640.62
Jack Pine Booms...		661	46,915	117.28	114.21	231.49
Balsam Logs.....		1,650	20,641	41.29	54.70	95.99
Basswood Logs....		23,449	2,052,607	5,131.51		5,131.51
Birch Logs.....		29,763	1,931,611	4,829.02	2,241.80	7,070.82
Cedar Logs.....		100	621	.93	.73	1.66
Hemlock Logs.....		17,312	663,376	995.07	196.79	1,191.86
Hemlock Booms....		16	2,691	6.73	8.07	14.80
Poplar Logs.....		21,280	314,010	628.02	791.98	1,420.00
Spruce Logs.....		67,575	1,461,281	2,992.53	4,531.54	7,454.07
Spruce Booms.....		1,099	140,203	347.49	214.28	561.77
Fuelwood (Hard)...	333.13			166.56		166.56
Fuelwood (Soft)....	107.46			26.86	35.01	61.87
Ties.....		3,319		331.90	331.90	663.80
Poles.....		1,923		655.00	415.95	1,070.95
Posts.....		926		18.52	18.52	37.04
Balsam Pulpwood..	169.17			118.42	.37	118.79
Jack Pine Pulpwood	4,220.84			1,688.34	509.56	2,197.90
Poplar Pulpwood...	1,495.23			598.10	142.00	740.10
Spruce Pulpwood...	19,345.99			27,084.55	3,382.85	30,467.40
Jack Pine Pit Props.	681.26			272.50	408.76	681.26
Pulpwood Exported						
Spruce.....	44.81				29.13	29.13
J. Pine Pit Props.	681.26				170.31	170.31
				\$175,533.61	\$344,415.50	\$519,949.11

Cut Under Permit

Basswood Logs.....	35,000 Ft. B. M.
Birch Logs.....	587,000 Ft. B. M.
Hemlock Logs.....	15,000 Ft. B. M.
Pine Logs.....	1,978,000 Ft. B. M.
Jack Pine Logs.....	844,000 Ft. B. M.
Poplar Logs.....	106,000 Ft. B. M.
Spruce Logs.....	543,000 Ft. B. M.
Fuelwood (Hard)....	15,497 Cords
Fuelwood (Soft)....	13,010 Cords
Ties.....	12,185 Pieces
Poles.....	3,699 Pieces
Posts.....	3,126 Pieces

TABLE NO. 2G
PARRY SOUND DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		25,728	1,515,962	\$ 3,789.91	\$ 581.96	\$ 4,371.87
Pine Booms.....		19	1,408	3.52	.91	4.43
Ash Logs.....		322	17,926	44.85	18.00	62.85
Balsam Logs.....		801	9,647	19.29		19.29
Basswood Logs.....		9,298	375,570	938.95	174.24	1,113.19
Beech Logs.....		2,008	96,942	242.35	42.73	285.08
Birch Logs.....		93,947	7,368,834	18,422.15	8,319.39	26,741.54
Cedar Logs.....		462	8,518	12.78	.91	13.69
Cherry Logs.....		256	8,414	21.77	7.74	29.51
Elm Logs.....		1,364	104,803	261.99	90.67	352.66
Hemlock Logs.....		259,105	10,717,236	16,075.90	4,783.36	20,859.26
Hemlock Booms....		42	3,787	9.47	3.00	12.47
Maple Logs.....		43,797	2,374,315	5,935.79	1,851.36	7,787.15
Oak Logs.....		691	28,877	72.19	10.01	82.20
Poplar Logs.....		355	9,069	18.14		18.14
Spruce Logs.....		44,233	1,198,827	2,397.66	636.05	3,033.71
Spruce Booms.....		611	53,858	134.70	7.80	142.50
Tamarac Logs.....		393	3,888	5.83		5.83
Fuelwood (Hard)...	835.06			417.52	80.90	498.42
				\$48,824.76	\$16,609.03	\$65,433.79

Cut Under Permit

Ash Logs.....	5,000 Ft. B. M.
Balsam Logs.....	2,700 Ft. B. M.
Bass Logs.....	225,000 Ft. B. M.
Beech Logs.....	15,000 Ft. B. M.
Birch Logs.....	394,699 Ft. B. M.
Cedar Logs.....	4,500 Ft. B. M.
Hemlock Logs.....	1,153,474 Ft. B. M.
Maple Logs.....	95,024 Ft. B. M.
Pine Logs.....	1,401,302 Ft. B. M.
Spruce Logs.....	139,418 Ft. B. M.
Fuelwood (Hard)....	7,634 Cords
Posts.....	1,218 Pieces
Poles.....	4,174 Pieces

TABLE No. 2H
 PORT ARTHUR DISTRICT
 CLASSIFICATION OF ANNUAL TIMBER RETURN
 FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		22,303	1,060,387	\$ 2,650.94	\$ 5,881.23	\$ 8,532.17
Pine Booms.....		76	18,033	45.08	135.25	180.33
Jack Pine Logs...		1,374,217	23,490,268	42,362.85	38,297.74	80,660.59
Jack Pine Booms.		1,531	69,917	174.78	296.78	471.56
Balsam Logs.....		5,901	65,688	131.37	230.30	361.67
Birch Logs.....		357	6,883	17.20	7.75	24.95
Cedar Logs.....		1,664	21,914	32.87	57.24	90.11
Poplar Logs.....		31,481	524,952	1,049.91	1,106.42	2,156.33
Spruce Logs.....		406,654	9,273,872	18,547.76	29,939.69	48,487.45
Spruce Booms....		10,969	1,893,218	4,733.01	9,448.45	14,181.46
Tamarac Logs....		9	166	.25	.58	.83
Piling.....		141	8,694	20.02	10.25	30.27
Ties.....		35,754		3,575.40	1,388.53	4,963.93
Posts.....		110		2.20	6.60	8.80
Poles (Cu-Ft.)...		20,358	266,772.59	10,699.63		10,699.63
Fuelwood (Hard)	52.25			26.12	7.84	33.96
Fuelwood (Soft)..	1,604.27			401.06	356.21	757.27
Balsam Pulpwood	68,403.33			47,877.11	27,173.54	75,050.65
J. Pine Pulpwood.	77,143.02			30,857.21	10,609.07	41,466.28
Poplar Pulpwood.	5,391.71			2,156.68	104.36	2,261.04
Spruce Pulpwood.	490,974.27			677,928.23	196,007.49	873,935.72
Pulpwood Exp't'd.						
Balsam.....	26,151.14				16,998.22	16,998.22
Jack Pine.....	32,970.18				8,242.54	8,242.54
Spruce.....	84,267.63				54,773.95	54,773.95
				\$843,289.68	\$401,068.87	\$1,244,369.71

Cut Under Permit

Balsam Logs.....	43,932 Ft. B. M.
Birch Logs.....	4,320 Ft. B. M.
Pine Logs.....	124,514 Ft. B. M.
Jack Pine Logs.....	275,773 Ft. B. M.
Poplar Logs.....	46,596 Ft. B. M.
Spruce Logs.....	57,399 Ft. B. M.
Fuelwood (Hard)....	1,488.50 Cords
Fuelwood (Soft)....	565.50 Cords
Balsam Pulpwood....	55.00 Cords
Jack Pine Pulpwood..	356.00 Cords
Poplar Pulpwood....	630.84 Cords
Spruce Pulpwood....	565.50 Cords
Ties.....	526 Pieces
Poles.....	2,140 Pieces
Posts.....	300 Pieces

TABLE No. 2i
SAULT STE. MARIE DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		309,927	21,121,508	\$ 52,803.93	\$ 56,655.93	\$109,459.76
Pine Booms.....		4,818	797,489	1,993.71	3,393.47	5,387.18
Jack Pine Logs.....		112,901	3,149,623	7,874.05	11,803.89	19,677.94
Jack Pine Booms...		1,227	81,107	202.76	382.10	584.86
Ash Logs.....		40	1,230	3.07	3.47	6.54
Balsam Logs.....		326	3,794	7.59	16.87	24.46
Birch Logs.....		7,951	462,184	1,167.94	2,227.30	3,395.24
Cedar Logs.....		140	3,765	5.64	9.41	15.05
Cedar Booms.....		1	50	.12	.10	.22
Elm Logs.....		6	804	2.01	2.21	4.22
Hemlock Logs.....		3,788	224,611	336.90	521.01	857.91
Hemlock Booms.....		7	488	1.22	1.10	2.32
Maple Logs.....		5,103	166,309	415.75	511.47	927.22
Oak Logs.....		595	39,814	99.53	112.41	211.94
Spruce Logs.....		54,200	1,541,734	3,083.45	5,000.98	8,084.43
Spruce Booms.....		1,937	202,565	506.39	1,043.78	1,550.17
Ties.....			35,139	3,513.90	1,405.56	4,919.46
Poles.....			296	89.50	77.50	167.00
Car Stakes.....			2,096	41.92		41.92
Balsam Pulpwood..	15,393.02			10,775.11	1,719.04	12,494.18
Jack Pine Pulpwood	7,268.41			2,907.36	726.84	3,634.20
Poplar Pulpwood...	563.10			225.24	168.93	394.17
Spruce Pulpwood...	176,105.72			246,548.01	35,836.69	282,384.70
Pulpwood Exported						
Spruce.....	28.10				18.26	18.26
Balsam.....	47.89				31.13	31.13
				\$332,605.03	\$121,669.45	\$454,274.48

Cut Under Permit

Birch Logs.....	801,464 Ft. B. M.
Hemlock Logs.....	245,760 Ft. B. M.
Maple Logs.....	99,304 Ft. B. M.
Pine Logs.....	241,562 Ft. B. M.
Spruce Logs.....	144,762 Ft. B. M.
Fuelwood (Hard)....	2,333.94 Cords
Spruce Pulpwood.....	28.00 Cords

TABLE No. 2j
 SIOUX LOOKOUT DISTRICT
 CLASSIFICATION OF ANNUAL TIMBER RETURN
 FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		11,232	444,582	\$ 1,111.45	\$ 3,843.52	\$ 4,954.97
Pine Booms.....		12	3,695	9.24	35.10	44.34
Jack Pine Logs....		199,318	3,141,700	7,427.50	14,512.27	21,939.77
Jack Pine Booms...		288	11,646	29.11	52.20	81.31
Birch Logs.....		456	4,412	11.02	17.60	28.62
Spruce Logs.....		20,416	410,401	820.80	1,944.30	2,765.10
Spruce Booms.....		1,611	189,726	474.30	999.65	1,473.95
Lagging (Lin-Ft.)...		200	4,400	14.67		14.67
Ties.....		125,961		12,596.10	2,519.22	15,115.32
Fuelwood (Soft)....	983.60			245.90	17.55	263.45
Balsam Pulpwood..	5,508.33			3,855.84	39.19	3,895.03
Jack Pine Pulpwood	7,384.29			2,953.72	1,277.23	4,230.85
Spruce Pulpwood...	115,908.02			161,934.93	9,142.93	171,077.86
Pulpwood Exported						
Balsam.....	1,622.58				1,054.67	1,054.67
Jack Pine.....	2,155.24				538.81	538.81
Spruce.....	21,459.21				13,948.49	13,948.49
				\$191,484.58	\$49,942.73	\$241,427.31

Cut Under Permit

Jack Pine Logs.....	60,103 Ft. B. M.
Spruce Logs.....	1,810,414 Ft. B. M.
Fuelwood (Soft)....	11,890.75 Cords
Spruce Pulpwood....	1,275.62 Cords
Ties.....	677 Pieces
Poles.....	46 Pieces
Posts.....	49 Pieces
Lagging.....	392,378 Lin-Ft.

TABLE NO. 2K
SUDBURY DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		410,571	12,225,771	\$30,564.44	\$61,431.25	\$91,995.69
Pine Booms.....		1,029	114,426	286.06	640.60	926.66
Jack Pine Logs.....		1,046,211	17,125,666	35,788.29	82,800.94	118,589.23
Jack Pine Booms...		4,836	214,473	536.17	998.61	1,534.78
Ash Logs.....		23	1,258	3.14		3.14
Basswood Logs.....		1,433	38,419	96.05	96.05	192.10
Birch Logs.....		3,912	101,546	253.86	130.85	384.71
Cedar Logs.....		236	4,570	7.00	14.01	21.01
Elm Logs.....		32	1,106	2.76	3.32	6.08
Hemlock Logs.....		13,965	578,391	867.59	381.96	1,249.55
Hemlock Booms...		25	1,637	4.09	3.27	7.36
Maple Logs.....		402	11,734	29.33	35.20	64.53
Oak Logs.....		78	3,110	7.77	6.93	14.70
Poplar Logs.....		20,288	299,788	599.60	642.73	1,242.33
Spruce Logs.....		165,343	2,888,162	5,776.31	13,223.86	19,000.17
Spruce Booms.....		3,802	210,248	525.57	942.98	1,468.55
Fuelwood (Hard)...	552.30			276.15	42.19	318.34
Fuelwood (Soft)...	748.00			187.00	30.10	217.10
Ties.....		19,824		1,982.40	900.90	2,883.30
Poles Cu-Ft.....		31,520	354,755.83	13,582.41		13,582.41
Poles.....		494		162.75	189.20	351.95
Piling.....		7,802		486.45		486.45
Posts.....		7,917		158.34	234.11	392.45
Car Stakes.....		16,081		321.68	26.77	348.45
Balsam Pulpwood...	851.49			596.05	81.65	677.70
Jack Pine Pulpwood	55,800.47			22,320.20	726.79	23,046.99
Poplar Pulpwood...	4,929.81			1,971.93	621.31	2,593.24
Spruce Pulpwood...	18,692.22			26,169.11	1,552.37	27,721.48
Jack Pine Pit Props.	857.92			343.17	519.16	862.33
Spruce Pit Props...	185.15			259.21	46.29	305.50
Pulpwood Exported						
Balsam.....	99.71				64.81	64.81
Jack Pine.....	110.50				27.62	27.62
Spruce.....	1,203.97				782.59	782.59
Pit Props Exported						
Jack Pine.....	857.92				214.47	214.47
Spruce.....	185.15				120.36	120.36
				\$144,164.88	\$167,533.24	\$311,698.12

Cut Under Permit

Basswood Logs.....	458 Ft. B. M.
Birch Logs.....	4,206 Ft. B. M.
Cedar Logs.....	11,508 Ft. B. M.
Hemlock Logs.....	95,460 Ft. B. M.
Pine Logs.....	1,985,704 Ft. B. M.
Jack Pine Logs.....	315,899 Ft. B. M.
Poplar Logs.....	105,161 Ft. B. M.
Spruce Logs.....	270,218 Ft. B. M.
Fuelwood (Hard).....	4,000 Cords
Fuelwood (Soft).....	3,983 Cords
Ties.....	7,304 Pieces
Poles.....	3,372 Pieces
Posts.....	3,312 Pieces
Jack Pine Pulpwood.....	887 Cords
Jack Pine Pit Props.....	1,440 Cords
Poplar Pulp Wood.....	1,695 Cords
Spruce Pulpwood.....	1,595 Cords
Car Stakes.....	850 Pieces

TABLE NO. 2L
TRENT DISTRICT
CLASSIFICATION OF ANNUAL TIMBER RETURN
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		234,838	6,514,474	\$16,286.10	\$26,826.72	\$43,112.82
Pine Booms.....		728	63,894	159.73	72.06	231.79
Ash Logs.....		1,330	40,553	101.38	64.81	166.19
Balsam Logs.....		6,315	66,927	133.85	70.78	204.63
Basswood Logs....		18,608	668,270	1,670.67	991.51	2,662.18
Beech Logs.....		6,885	281,235	730.08	186.92	917.00
Birch Logs.....		31,557	2,058,864	5,147.19	2,534.12	7,681.23
Cedar Logs.....		4,244	47,150	70.73	139.37	210.10
Cherry Logs.....		119	6,360	15.90	11.31	27.21
Elm Logs.....		2,535	184,301	460.70	486.73	947.43
Hemlock Logs....		154,269	4,972,930	7,459.45	1,714.90	9,174.35
Hemlock Booms....		159	11,422	28.54	8.08	36.62
Maple Logs.....		39,100	2,223,529	5,558.81	2,933.00	8,491.81
Oak Logs.....		546	18,850	47.13	54.31	101.44
Poplar Logs.....		39,408	772,743	1,545.50	1,025.66	2,571.16
Spruce Logs.....		85,713	1,694,485	3,388.98	3,915.20	7,304.18
Spruce Booms....		476	47,157	117.87	134.95	252.82
Tamarac Logs....		671	10,130	15.19	42.69	57.88
Trees.....		20		5.00		5.00
Ties.....		243		24.30	4.86	29.16
Poles.....		584		181.75	150.25	332.00
Posts.....		2,495		49.90	111.97	161.87
Fuelwood (Hard)...	2,649.36			1,324.67	408.73	1,733.40
Fuelwood (Soft)...	49.09			12.44	1.39	13.83
Balsam Pulpwood...	381.82			267.26	88.81	356.07
Poplar Pulpwood...	1,152.15			460.85	191.08	651.93
Spruce Pulpwood...	493.67			691.13		691.13
Pulpwood Exported						
Balsam.....	359.57				233.72	233.72
Spruce.....	386.31				251.10	251.10
				\$45,955.11	\$42,655.03	\$88,610.04

Cut Under Permit

Birch Logs.....	140,055 Ft. B. M.
Hemlock Logs.....	612,752 Ft. B. M.
Maple Logs.....	437,187 Ft. B. M.
Pine Logs.....	1,137,259 Ft. B. M.
Spruce Logs.....	595,744 Ft. B. M.
Ties.....	294 Pieces
Poplar Pulpwood.....	2,032.36 Cords
Spruce Pulpwood.....	242.00 Cords

TABLE NO. 3
FINAL STATEMENT OF PULPWOOD EXPORTED FROM ONTARIO
January 1 to December 31, 1946

District	Crown Lands (Cords)	Private Lands (Cords)	Total (Cords)	Value \$
Chapleau.....	Nil	Nil	.....	.....
Cochrane.....	32,736.00	23,164.00	55,900.00	556,359.50
Fort Frances.....	5,201.82	5,234.97	10,436.79	103,404.58
Geraldton.....	5,738.00	.....	5,738.00	103,284.00
Gogama.....	37.41	.....	37.41	439.57
Kapuskasing.....	220,897.80	56,989.87	277,887.67	3,288,071.58
Kenora.....	.....	114.00	114.00	1,368.00
North Bay.....	2,620.99	7,403.50	10,024.49	98,441.90
Parry Sound.....	.....	105.00	105.00	1,049.50
Pembroke.....	500.00	11,068.00	11,568.00	117,854.00
Port Arthur.....	281,918.49	43,805.00	325,723.49	6,603,971.12
Sault Ste. Marie.....	10,443.66	1,450.34	11,894.00	143,121.76
Sioux Lookout.....	13,993.00	2,359.50	16,352.50	271,077.61
Sudbury.....	3,788.45	17,388.00	21,176.45	144,696.27
Tweed.....	1,532.00	8,988.00	10,520.00	13,680.00
Total.....	579,407.62	178,070.18	757,477.80	\$11,446,819.39

TABLE No. 4
FINAL STATEMENT OF PULPWOOD EXPORTED FROM ONTARIO
January 1 to December 31, 1946

DISTRICT	CLASS OF WOOD	CROWN LANDS—CORDS			PRIVATE LANDS—CORDS		
		SPRUCE AND BALSAM	JACKPINE	POPULAR	SPRUCE AND BALSAM	JACKPINE	POPULAR
Chapleau.....	Peeled						
	Rough						
Cochrane.....	Peeled	15,765.00		16,971.00	18,237.00		4,927.00
	Rough						
Fort Frances.....	Peeled				313.53	192.19	4.33
	Rough				855.00	1,273.34	2,596.58
Geraldton.....	Peeled	5,738.00	5,179.47	22.35			
	Rough						
Gogama.....	Peeled	37.41					
	Rough						
Kapuskasing.....	Peeled	32,174.83			8,610.84		3,038.99
	Rough	188,182.97	520.00	20.00	45,340.04		
Kenora.....	Peeled				114.00		
	Rough						
North Bay.....	Peeled	412.00		2,193.49	533.50		5,957.00
	Rough	15.50			95.00		818.00
Parry Sound.....	Peeled						105.00
	Rough						
Pembroke.....	Peeled			500.00	2,087.00		8,981.00
	Rough						
Port Arthur.....	Peeled	1,782.99		61.50			11,009.50
	Rough	251,157.00			29,249.00	3,400.00	146.50
Sault Ste. Marie.....	Peeled	10,443.66	28,917.00		248.99	15.00	1,186.35
	Rough						
Sioux Lookout.....	Peeled		122.00		2,199.50		
	Rough	12,643.00	1,228.00		160.00		
Sudbury.....	Peeled			356.00	18.00		7,660.00
	Rough	1,005.61	2,426.84	2,426.84	4,020.50	2,870.00	2,819.50
Tweed.....	Peeled	554.00		978.00	2,433.50		6,554.50
	Rough						
Total.....	Peeled	66,907.89	122.00	21,059.99	34,795.86	207.19	49,423.67
	Rough	453,004.08	35,844.47	2,469.19	79,719.54	7,543.34	6,380.58
		519,911.97	35,966.47	23,529.18	114,515.40	7,750.53	55,804.25
Total Peeled—Crown.....		88,089.88					
Total Rough—Crown.....		491,317.74					
Total Peeled—Private.....		84,426.72					
Total Rough—Private.....		93,643.46					
Total.....		757,477.80					

TABLE NO. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Apr. 10	Apr. 24	Bishop, Freswick Devine, Biggar McLaughlin etc.	220	1	John Odenback, Lincoln Alliance Bldg. Rochester, N.Y.	Red and W. Pine Logs Jackpine Logs Spruce Logs Hemlock Logs Hardwoods Spruce Pulpwood Balsam Pulpwood	\$5.00 4.00 4.00 2.00 8.00 1.00	\$6.50 4.50 4.00 2.50 3.50 .35 .30	\$2.50 1.50 2.00 1.50 2.50 1.40 .70	\$14.00 Per MBM 10.00 Per MBM 10.00 Per MBM 6.00 Per MBM 14.00 Per MBM 2.75 Per Cd. 1.00 Per Cd.
Apr. 18	May 9	Fox Twp.	1½	1	Thos. B. Skidmore, Brower P.O., Ont.	Spruce Pulpwood Balsam Pulpwood	.05 Same rate	.10 as tendered	1.40	1.55 Per Cd. on Spruce.
May 4	May 21	Monmouth Twp.	1	1	Scott Lumber Co., Peterborough, Ont.	Pine Logs Spruce Logs Hemlock Logs Cedar Logs Maple and Birch Basswood Poplar	5.00 5.00 3.00 4.00 4.00 5.00 3.00	7.50 5.00 3.50 4.50 4.50 4.50 3.50	2.50 2.00 1.50 1.50 2.50 2.50 1.50	15.00 Per MBM 12.00 Per MBM 8.00 Per MBM 10.00 Per MBM 11.00 Per MBM 12.00 Per MBM 8.00 Per MBM
May 16	May 31	Twps. 2F. and 196	12	3	J. J. McFadden Lumber Co. Ltd., - Blind River, Ont.	Red and White Pine Spruce Logs	3.27 3.27	7.50 6.00	2.50 2.00	13.27 Per MBM 11.27 Per MBM
June 17	July 2	Pacaud Twp.	½	7	Donald Burnard, Krugerdorf, Ont.	Spruce Logs Jackpine Spruce Pulpwood Poplar Pulpwood	2.50 3.00 .10 .20	6.00 6.00 .25 .25	2.00 1.50 1.40 .40	10.50 Per MBM 10.50 Per MBM 1.75 Per Cd. .85 Per Cd.
June 28	July 15	Area E. of Timber Berth R-5-40 between Lake Despair & Dance Twp.	2	2	E. H. Armstrong, Finland, Ont.	Fuelwood	.70	.10	.25	1.05 Per Cd.
July 2	July 18	Eby Twp. Parcel 1	½	2	Harry Block, Swastika, Ont.	Spruce Pulpwood Balsam Pulpwood	.35.....	.40 1.45	1.40 .70	2.15 Per Cd. 2.15 Per Cd.

TABLE No. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
July 2	July 18	Eby and Burt Twps. Parcel 2	1½	1	Harry Block, Swastika, Ont.	Jackpine Logs Jackpine Pitprops Poplar Pulpwood Spruce Pulpwood	\$1.50 .50 .25 .25	\$7.00 1.10 .25 .40	\$1.50 .40 .40 1.40	\$10.00 Per MBM 2.00 Per Cd. .90 Per Cd. 2.05 Per Cd.
July 3	July 18	McCann Twp.	1	3	Hembruff Timber Co. Matheson, Ont.	Spruce Logs Jackpine Logs Jackpine Pulpwood Spruce Pulpwood	3.50 3.50 .25 .20	6.50 7.00 .35 .40	2.00 1.50 .40 1.40	12.00 Per MBM 12.00 Per MBM 1.00 Per Cd. 2.00 Per Cd.
July 3	July 22	McLure and Wicklow Twps.	1¼	1	Mac, Fitzgerald, Maynooth, Ont.	Maple, Birch and Basswood Logs Spruce & Balsam Logs Hemlock Logs Poplar Logs Fuelwood (Hard)	.05 .05 .05 .05	4.50 5.00 3.50 3.00 .50	2.50 2.00 1.50 2.00 .50	7.05 Per MBM 7.05 Per MBM 5.05 Per MBM 5.05 Per MBM .50 Per Cd.
July 4	July 22	Barker Twp.	1¼	4	Jos. Perreault, Reesor, Ont.	Spruce Pulpwood Balsam Pulpwood	.76 .76	.35 1.05	1.40 .70	2.51 Per Cd. 2.51 Per Cd.
July 4	July 22	Pennefather Twp.	¾	2	Elliott Lumber Co., 281 Conmee Ave., Sault Ste. Marie, Ont.	Birch Logs Maple Logs Oak Logs Poplar Logs Hemlock Logs Spruce Logs Balsam Logs White Pine Logs Cedar Poles Cedar Posts	1.00 .50 2.00 .50 1.00 1.00 .50 2.00 .05 .01	5.50 3.50 5.50 3.00 3.00 6.00 7.50 .25 .02	2.50 2.50 2.50 2.00 1.50 2.00 2.50 .25 .02	9.00 Per MBM 6.50 Per MBM 10.00 Per MBM 5.50 Per MBM 5.50 Per MBM 9.00 Per MBM 8.50 Per MBM 12.00 Per MBM .55 Each .05 Each
July 6	July 22	Chamberlain Twp.	¼	3	Albert Hayes, Englehart, Ont.	Jackpine Logs Spruce Pulpwood Poplar Pulpwood	.50 .20 .45	6.00 .25 .25	1.50 1.40 .40	8.00 Per MBM 1.85 Per Cd. 1.10 Per Cd.

TABLE No. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid			Total
						Kind of Timber	Bid	Upset	Dues
July 8	July 25	Wallbridge Twp.	2	2	W. V. Seigner Lumber Co. Ltd., 49 King St. E., Kitchener, Ont.	Pine Logs Fire Damaged Jackpine	\$2.00 Flat rate of \$2.	\$5.00 rate of \$2.	\$2.50 00 per MBM inc. of dues.
July 10	July 29	Conger Twp.	8½	2	Whitehorn & Skinner Lumber Co., 216 Heath St. W., Toronto, Ont.	Pine Logs Hemlock Logs Hardwood Logs Spruce Logs Tamarac Logs	3.60 1.00 3.25 1.00 1.00	2.50 1.50 2.50 2.00 1.50	8.60 Per MBM 4.00 Per MBM 8.25 Per MBM 5.00 Per MBM 4.00 Per MBM
July 15	Aug. 1	Island E54 and Part 500A. Georgian Bay, opposite Shawanaga Twp.	2¼	3	The McGibbon Lumber Co. Ltd., Penetanguishene, Ont.	Pine Logs	10.15	5.50	2.50 18.15 Per MBM
July 13	July 30	Sheraton Twp.	2¼	3	E. Mainville, 66 Main Ave., Timmins, Ont.	Jackpine Logs Poplar Logs Jackpine Pulp Poplar Pulp Balsam Pulp Spruce Pulp Jackpine Fuelwood Jackpine Pitprops	.50 .25 .25 .10 .15 .15 .25 .75	8.50 2.50 .35 .25 .40 .70 .20 .50	1.50 2.00 .40 .40 .75 Per Cd. 1.75 Per Cd. 1.75 Per Cd. 1.00 Per Cd. 1.75 Per Cd.
July 15	Aug. 2	Blyth Twp.	1¾	3	C. D. Milani, Box. 292 North Bay, Ont.	Hardwood Logs	2.50	6.00	2.50 11.00 Per MBM
July 18	Aug. 26	Smyth Twp.	6	1	Ed. Smith & Co., 153 Lawrence Ave. E., Toronto, Ont.	Jackpine Logs Spruce Logs Spruce Pulp	...........05	6.00 5.50 .25	1.50 2.00 1.40 7.50 Per MBM 7.50 Per MBM 1.70 Per Cd.

TABLE No. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Aug. 26	Sept. 16	Black Twp.	$\frac{3}{4}$	1	R. Guertin, Ramore, Ont.	Jackpine Logs	\$1.00	\$7.00	\$1.50	\$ 9.50 Per MBM
						Spruce Logs	.....	6.50	2.00	8.50 Per MBM
						Poplar Logs	.50	2.50	2.00	5.00 Per MBM
						Spruce Pulpwood	.20	.40	1.40	2.00 Per Cd.
						Poplar Pulpwood	.....	.25	.40	.65 Per Cd.
Sept. 13	Oct.	Fournier Twp.	$4\frac{3}{4}$	2	M. Owens, 117 Seventh Ave., Cochrane, Ont.	Birch Fuelwood	.....	.15	.50	.65 Per Cd.
						Spruce Logs	2.50	6.00	2.00	10.50 Per MBM
						Poplar Logs	2.50	2.50	2.00	7.00 Per MBM
						Spruce Pulpwood	.25	.40	1.40	2.05 Per Cd.
						Poplar Pulpwood	.35	.25	.40	1.00 Per Cd.
Sept. 16	Oct.	Morrisette Twp.	20	2	Ontario Paper Co. Ltd. Montreal, Que.	Birch Fuelwood	.15	.15	.50	.80 Per Cd.
						Soft Fuelwood	.25	.15	.25	.65 Per Cd.
						Balsam Pulpwood	.20	1.10	.70	2.00 Per Cd.
						Spruce Logs	1.00	7.00	2.00	10.00 Per MBM
						Poplar Logs	.....	2.50	2.00	4.50 Per MBM
Sept. 19	Oct.	Hanlan Twp.	$\frac{1}{2}$	1	L. Boisvert, La Sarre, Abitibi, Que.	Jackpine Logs	1.00	7.50	1.50	10.00 Per MBM
						Spruce Pulpwood	.30	.35	1.40	2.05 Per Cd.
						Poplar Pulpwood	.....	.25	.40	.65 Per Cd.
						Jackpine Pulpwood	.....	.35	.40	.75 Per Cd.
						Spruce Logs	.10	5.50	2.00	7.60 Per MBM
Sept. 19	Oct.	Freleigh Twp.	$6\frac{3}{4}$	2	Wellington Couch & Sons, Gillies, Ont.	Poplar Spruce Pulp	.05	1.25	2.00	3.30 Per MBM
						Balsam Pulp	.05	1.05	.70	1.80 Per Cord
						Jackpine Logs	3.50	7.00	1.50	12.00 Per MBM
						Spruce Logs	3.50	6.50	2.00	12.00 Per MBM
						Poplar Logs	2.00	3.00	2.00	7.00 Per MBM
Sept. 19	Oct.	Freleigh Twp.	$6\frac{3}{4}$	2	Wellington Couch & Sons, Gillies, Ont.	Balsam Logs	2.00	3.00	2.00	7.00 Per MBM
						Spruce Pulpwood	1.25	.85	1.40	3.50 Per Cord
						Balsam Pulpwood	.75	.55	.70	2.00 Per Cord
						Poplar Pulpwood	.30	.30	.40	1.00 Per Cord
						Jackpine Pulpwood	1.20	.40	.40	2.00 Per Cord

TABLE NO. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Ten- ders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Sept. 20	Oct. 9	Kennedy Twp.	1½	2	T. B. Skidmore, Brower Post Office, Ont.	Spruce Pulpwood Poplar Pulpwood	\$.25	\$.35 .25	\$1.40 .40	\$ 2.00 Per Cord .65 Per Cord
Oct. 15	Nov. 1	Little Twp.	1¾	1	Antoine Morin, Connaught Station, Ont.	Spruce Logs Spruce Pulpwood Poplar Logs Balsam Pulpwood	.50 .25	7.00 20 2.50 .90	2.00 1.40 2.00 .70	9.50 Per MBM 1.85 Per Cord 4.50 Per MBM 1.60 Per Cord
Oct. 16	Nov. 6	McCart Twp.	¾	2	Charles Pedskalney, Porquis Junction, Ont.	Spruce Logs Spruce Pulpwood Balsam Pulpwood	......10 .10	6.50 .40 1.10	2.00 1.40 .70	8.50 Per MBM 1.90 Per Cord 1.90 Per Cord
Oct. 16	Nov. 7	Murphy Twp.	1½	2	Rene Ginho, Box 549, Timmins, Ont.	Spruce Pulpwood Balsam Pulpwood	.35 .35	.45 1.15	1.40 .70	2.20 Per Cord 2.20 Per Cord
Oct. 19	Nov. 12	Drayton Twp.	1½	3	John Binns & Co., per O. Andrews, Hudson, Ont.	Spruce Pulpwood Balsam Pulpwood	.45 .70	.60	1.40 .70	2.45 Per Cord 1.40 Per Cord
Oct. 22	Nov. 12	McVittie and McGarry Twp.	2	2	Proprietary Mines Limited, Larder Lake, Ont.	Jackpine Logs Birch Logs Spruce Logs Poplar Logs Poplar Pulpwood White Birch (Fuel) Soft Fuelwood	4.75 2.00 5.00 4.50 .20 .10 .10	7.50 3.50 7.00 2.50 .25 .15 .15	1.50 2.50 2.00 2.00 .40 .50 .25	13.75 Per MBM 8.00 Per MBM 14.00 Per MBM 9.00 Per MBM .85 Per Cord .75 Per Cord .50 Per Cord
Oct. 25	Nov. 13	Herschel Twp.	1¼	1	Frank Pecver, Maynooth, Ont.	Pine Logs Hardwood Logs Poplar Logs Spruce Logs Cedar Logs Poplar Pulpwood	1.00 1.00......50	7.50 4.50 3.00 5.00 4.50 .35	2.50 2.50 2.00 2.00 1.50 .40	11.00 Per MBM 8.00 Per MBM 5.00 Per MBM 7.50 Per MBM 6.00 Per MBM .75 Per Cord

TABLE NO. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Oct. 26	Nov. 21	Lutterworth Twp.	1/4	1	S. J. Bryant, Norland, Ont.	White Pine Logs Spruce & Balsam Logs Cedar Logs Birch Logs Basswood Logs Poplar Logs	\$2.00 3.00 2.00 3.00 3.00 3.00	\$7.50 5.00 4.50 4.50 4.50 3.50	\$2.50 2.00 1.50 2.50 2.50 1.50	\$12.00 Per MBM 10.00 Per MBM 8.00 Per MBM 10.00 Per MBM 10.00 Per MBM 8.00 Per MBM
Oct. 31	Nov. 18	Nansen Twp.	3 1/2	1	Messrs. D'Amours Bros., Moonbeam, Ont.	Spruce and Balsam Pulpwood	.02 cents	1.8 cents	.....	1.82 cents Per Cu. Ft.
Nov. 1	Nov. 18	Blount Twp.	1 1/4	2	A. E. Wicks, Cochrane, Ont.	Spruce Logs Spruce Pulpwood	......90	5.50 .20	2.00 1.40	7.50 Per MBM 2.50 Per Cord
Nov. 4	Nov. 19	Smyth & Davidson Twps.	18	1	J. W. Craig, Elk Lake, Ont.	Jackpine Logs Spruce Logs Spruce Pulpwood	..... ..... .....	6.00 5.50 .25	1.50 2.00 1.40	7.50 Per MBM 7.50 Per MBM 1.65 Per Cord
Nov. 5	Nov. 21	Forgie Twp.	2	1	Carl Jacobson, Box 1021, Kenora, Ont.	Green Spruce Pulp. Burnt Spruce Pulp.	.75 .75	.60 .30	1.40 1.40	2.75 Per Cord 2.50 Per Cord
Nov. 2	Nov. 25	Aberdeen Twp.	1	1	Jack P. Stobie, Port Lock, Ont.	Hemlock Logs Birch Logs Maple Logs Cedar Poles Cedar Posts	.25 .40 .25 .10 .02	2.50 5.50 3.50 .25 .02	1.50 2.50 2.50 .25 .02	4.25 Per MBM 8.40 Per MBM 6.25 Per MBM .60 Each .06 Each
Nov. 6	Nov. 25	Bridgland Twp.	3/4	2	Pennington Lumber Co. (Canada) Ltd., Thessalon, Ont.	Birch Logs Maple and Other Hardwoods Hemlock Spruce & Balsam Logs Pine Logs Cedar Poles 21' to 30' Cedar Poles 31' to 40' Cedar Poles 41' to 50'	2.50 2.25 1.00 1.00 2.00	4.50 3.50 2.50 5.00 7.50 .25 .25 .25	2.50 2.50 1.50 2.00 2.50 .25 .50 .75	9.50 Per MBM 8.25 Per MBM 5.00 Per MBM 8.00 Per MBM 12.00 Per MBM .50 Each .75 Each 1.00 Each

TABLE No. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Nov. 6	Nov. 28	Hendrie Twp.	1 1/4	1	David Lankinen Wahnapitac P.O., Ont.	Birch Logs Spruce Logs Cedar Posts Fuelwood (Hard) Cedar Poles Up to 10 Cu. Ft. Over 10 to 20 Cu. Ft. Over 20 to 30 Cu. Ft. Over 30 to 40 Cu. Ft. Over 40 to 50 Cu. Ft.	\$.20 .50 .00 1/2 .05	\$3.50 6.00 .03 .10	\$2.50 2.00 .02 .50	\$ 6.20 Per MBM 8.50 Per MBM .05 1/2 Each .65 Per Cord
Nov. 13	Dec. 2	Matawatchan Twp.	1/2	7	Wm. Thompson, Camel Chute, Ont.	Red & White Pine Spruce Poplar Hardwoods	10.00 9.00 9.00 12.00	10.00 6.00 3.00 4.50	2.50 2.00 2.00 2.50	22.50 Per MBM 17.00 Per MBM 14.00 Per MBM 19.00 Per MBM
Nov. 14	Dec. 4	McGarry Twp.	4	1	Thomas Breen, Kearns, Ont.	Poplar Logs Spruce Logs Jackpine Logs Spruce Pulpwood Poplar Pulpwood Birch Fuelwood Jack Pine Pit Props Jackpine Pulpwood	.50 1.00 1.00 .20 .10 .10 . . .	2.50 7.00 7.50 1.50 .25 .15 .60 .35 .	2.00 2.00 1.50 1.40 .40 .50 . . .	5.00 Per MBM 10.00 Per MBM 10.00 Per MBM 2.00 Per Cord .75 Per Cord .75 Per Cord 1.00 Per Cord .75 Per Cord
Nov. 19	Dec. 18	Shields Twp.	2	1	A. J. Autio, Wabos, Ont.	Birch Logs Maple Logs White Pine Cedar Poles Cedar Shingle Bolts	.25	5.50 3.50 7.50 .25 .25	2.50 2.50 2.50 .25 .40	8.25 Per MBM 6.00 Per MBM 10.50 Per MBM .50 Each .65 Per Cord
Nov. 19	Dec. 18	German Twp.	1 3/4	2	J. W. Quirion, Connaught Station, Ont.	Spruce Pulpwood Balsam Pulpwood	.40 .40	.30 1.00	1.40 .70	2.10 Per Cord 2.10 Per Cord

TABLE NO. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Nov. 19	Dec. 19	Dominion and St. Patrick Group of Islands, Upper Abitibi Lake	2	2	Philias Trudel, Georges Dostaler and Joseph Gervais, P. O. Clerval, Abitibi P. Quebec	White & Red Pine	\$4.00	\$7.50	\$2.50	\$14.00 Per MBM
						Spruce Logs	2.00	7.00	2.00	11.00 Per MBM
Nov. 19	Dec. 18	McKinnon Twp.	2¾	2	Samuel D. Short and Arthur D. Baule, Massey, Ont.	Poplar Logs	1.50	4.50	2.00	8.00 Per MBM
						White Birch Logs	1.00	3.50	2.50	7.00 Per MBM
Nov. 22	Dec. 23	Raglan Twp.	3¼	1	John T. Drohan, Barry's Bay, Ont.	Spruce Pulpwood	.25	.35	1.40	2.00 Per Cord
						Poplar Pulpwood	.05	.25	.40	.65 Per Cord
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Cedar Posts	.18	.05	.02	.25 Each
						Red and White Pine 13" and over	3.00	7.50	2.50	13.00 Per MBM
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Hemlock	1.00	3.50	1.50	6.00 Per MBM
						Hardwoods	2.00	3.50	2.50	8.00 Per MBM
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Cedar Poles	.....	.....	.....	.03 Per Cu. Ft.
						Up to 10 Cu. Ft.	.....	.....	.....	.04 Per Cu. Ft.
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Over 10 to 20 Cu. Ft.	.....	.....	.....	.04 Per Cu. Ft.
						Over 20 to 30 Cu. Ft.	.....	.....	.....	.05 Per Cu. Ft.
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Over 30 to 40 Cu. Ft.	.....	.....	.....	.06 Per Cu. Ft.
						Over 40 to 50 Cu. Ft.	.....	.....	.....	.07 Per Cu. Ft.
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Over 50 Cu. Ft.	.....	.....	.....	.08 Per Cu. Ft.
						Spruce and Balsam Logs	3.00	5.00	2.00	10.00 Per MBM
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Hemlock Logs	3.75	3.50	1.50	8.75 Per MBM
						Birch Logs	2.25	4.50	2.50	9.25 Per MBM
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Maple Logs	2.25	4.50	2.50	9.25 Per MBM
						Basswood Logs	3.00	4.50	2.50	10.00 Per MBM
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Oak and Elm Logs	2.25	4.50	2.50	9.25 Per MBM
						Poplar Logs	2.00	3.00	2.00	7.00 Per MBM
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Tamarac Logs	2.00	4.50	1.50	8.00 Per MBM
						Jackpine Logs	4.00	8.50	1.50	14.00 Per MBM
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 85 McKelvey St., Kirkland Lake, Ont.	Spruce Logs	4.00	8.00	2.00	14.00 Per MBM
						Spruce Pulpwood	.95	.40	1.40	2.75 Per Cord

TABLE No. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid			Total
						Kind of Timber	Bid	Upset	
Nov. 29	Dec. 27	Dalhousie Twp.	1¼	3	Wm. F. Umpherson, Poland, Ont.	Pine Logs Hemlock Logs Maple Logs Basswood Logs Oak Logs Beech Logs Poplar Logs Cedar Posts Birch Logs	\$2.50 3.50 4.50 4.50 5.00 4.00 4.00 .01 4.50	\$7.50 3.50 4.50 4.50 2.50 3.00 3.00 2.00 4.50	\$12.50 Per MBM 8.50 Per MBM 11.50 Per MBM 11.50 Per MBM 12.00 Per MBM 9.00 Per MBM 9.00 Per MBM .08 Each 11.50 Per MBM
Nov. 29	Dec. 27	Gould Twp.	1½	1	T. G. Fleron, Thessalon Ont.	Maple Logs Birch Logs Oak Logs Hemlock Logs Spruce & Balsam Logs Pine Logs Poplar Logs	4.25 5.25 2.50 1.25 7.50	3.00 5.00 2.50 2.50 5.00 2.50 2.00	9.75 Per MBM 12.75 Per MBM 10.00 Per MBM 5.25 Per MBM 7.00 Per MBM 10.00 Per MBM 4.00 Per MBM
Dec. 3	Dec. 30	Glackmeyer Twp.	½	2	George Debault, Cochrane, Ont.	Spruce Pulpwood	.10	.20	1.70 Per Cord
Dec. 3	Dec. 30	Denbigh and Matawatchesan Twps.	1¼	1	Ellsworth Presley, Vernacher, Ont.	Spruce Balsam Hemlock Maple, Basswood, Birch, Oak, Beech and Elm Poplar	1.00 1.00 1.00 1.00	5.00 3.50 4.50 3.00	8.00 Per MBM 6.00 Per MBM 8.00 Per MBM 6.00 Per MBM
Dec. 4	Dec. 30	Lyndoch Twp.	1½	2	August E. Quade, Quadville, Ont.	Pine (Marked) Birch, Maple, Beech, Oak, Elm, Ash and Basswood, Marked Hemlock Spruce and Balsam Poplar Birch	6.00 5.00 5.00 5.00 3.00 5.50	7.50 4.50 3.50 5.00 3.00 4.50	16.00 Per MBM 12.00 Per MBM 10.00 Per MBM 12.00 Per MBM 8.00 Per MBM 12.50 Per MBM

TABLE NO. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1947	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Dec. 6	Jan.	3 Curtis Twp.	1 1/4	1	S. T. Lewis, Ont. Searchmont, Ont.	Red & White Pine Logs Spruce Logs Balsam Logs Hardwood Logs Cedar Poles 21 to 30 Ft. 31 to 40 Ft.	\$.50	\$7.50 5.00 5.00 3.50 .25 .25	\$2.50 2.00 2.00 2.50 .25 .50	\$10.50 Per MBM 7.00 Per MBM 7.00 Per MBM 6.00 Per MBM .50 Each .75 Each
Dec. 17	Jan.	6 Denbigh Twp.	1 1/2	2	Eady & Graham, Cloyne, Ont.	Pine Logs Spruce & Balsam Logs Hemlock Logs Hardwood Logs Poplar Logs	10.00 10.00 10.00 10.00 10.00	7.50 5.00 3.50 4.50 3.00	2.50 2.00 1.50 2.50 2.00	20.00 Per MBM 17.00 Per MBM 15.00 Per MBM 17.00 Per MBM 15.00 Per MBM
Dec. 18	Jan.	6 Dowling Twp.	4 1/2	4	L. Portelance, 5 Carleton St., Sudbury, Ont.	Red & W. Pine Logs Jackpine Logs Spruce Logs Balsam Logs Birch and Ash Logs Poplar Logs Cedar Logs	3.50 3.50 3.50 3.50 3.00 1.00 3.00	7.50 6.50 6.00 6.00 3.50 2.50 6.50	2.50 1.50 2.00 2.00 2.50 2.00 1.50	13.50 Per MBM 11.50 Per MBM 11.50 Per MBM 11.50 Per MBM 9.00 Per MBM 5.50 Per MBM 11.00 Per MBM
Dec. 12	Jan.	7 Flett Twp.	9	2	Jerry Larochelle, Callander, Ont.	Red & W. Pine Logs Spruce Logs Spruce Pulpwood Poplar Pulpwood	5.00 1.00	8.00 6.00 .45 .45	2.50 2.00 1.40 .40	15.50 Per MBM 9.00 Per MBM 1.85 Per Cord .85 Per Cord
Dec. 12	Jan.	8 Barrie Twp.	3/4	3	Messrs. Wells Bros., Marmora, Ont.	Red & W. Pine Logs Spruce Logs Hemlock Logs Hardwood Logs Poplar Logs	2.00 3.00 2.50 3.00 3.00	7.50 5.00 3.50 4.50 3.00	2.50 2.00 1.50 2.50 2.00	12.00 Per MBM 10.00 Per MBM 7.50 Per MBM 10.00 Per MBM 8.00 Per MBM
Dec. 23	Jan.	10 Wellison Twp.	1	1	W. E. McAuley, Elk Lake, Ont.	Spruce Logs Jackpine Logs Poplar Logs	.50 .50 1.00	6.00 6.50 3.00	2.00 1.50 2.00	8.50 Per MBM 8.50 Per MBM 6.00 Per MBM

TABLE No. 5
Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1947	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Dec. 23	Jan. 20	Mulligan Twp.	1	2	Milton Irvine, Box 109, Englehart, Ont.	Red & W. Pine Logs Jackpine Logs Spruce Logs	\$1.50 1.25 1.25	\$7.00 7.00 6.50	\$2.50 1.50 2.00	\$11.00 per MBM 9.75 Per MBM 9.75 Per MBM
Dec. 30	Jan. 16	Truax Twp.	1½	1	William Gregory Charlton Station, Ont.	Jackpine Logs Spruce Logs Poplar Logs	..... ..... .....	6.50 6.00 3.50	1.50 2.00 2.00	8.00 Per MBM 8.00 Per MBM 5.50 Per MBM
1947 Jan. 9	Jan. 29	Grassett Twp.	3½	2	T. G. Fleron, Thessalon, Ont.	Hemlock Logs Hardwood Logs Poplar Logs Spruce & Balsam Logs Pine Logs Cedar Poles 21 to 30 Feet 31 to 40 Feet Up to 50 Feet	3.50 5.25 2.00	2.50 4.50 2.00 5.00 7.50	1.50 2.50 2.00 2.00 2.50	7.50 Per MBM 12.25 Per MBM 4.00 Per MBM 7.00 Per MBM 12.00 Per MBM
Jan. 9	Jan. 29	Whitney Twp.	¼	3	J. P. Roy, Timmins, Ont.	Spruce Logs Spruce Pulpwood Balsam Pulpwood Hard Fuelwood Soft Fuelwood	2.50 .90......25 .25	7.00 45 2.05 .15 .15	2.00 1.40 .70 .50 .25	11.50 Per MBM 2.75 Per Cord 2.75 Per Cord .90 Per Cord .65 Per Cord
Jan. 9	Jan. 29	Blain Twp.	¼	2	Herbert A. Palmer, Charlton, Ont.	Jackpine Logs Spruce Pulpwood Poplar Pulpwood	1.50......10	7.00 .45 .25	1.50 1.40 .40	10.00 Per MBM 1.85 Per Cord .75 Per Cord
Jan. 15	Feb. 4	Ashby Twp.	¼	3	Ed. Crewson, Warkworth, Ont.	Pine Logs Spruce & Balsam Logs Hemlock Logs Hardwood Logs Cedar Logs	11.00 8.00 10.00 10.00 12.00	7.50 5.00 3.50 4.50 4.50	2.50 2.00 1.50 2.50 1.50	21.00 Per MBM 15.00 Per MBM 15.00 Per MBM 17.00 Per MBM 18.00 Per MBM

TABLE No. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1947	Date Sold 1947	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid			Total
						Kind of Timber	Bid	Upset	Dues
Jan. 20	Feb. 10	Colenso Twp.	18	3	Steinbach Lumber Yards Quibell, Ont.	Jackpine Pulpwood Spruce Logs Spruce Pulp Spruce Logs Poplar Pulpwood Poplar Logs Balsam Pulpwood	\$.01 .00 ³ / ₄ .00 ¹ / ₂ .00 ³ / ₄ .00 ¹ / ₂ .00 ¹ / ₄ .00 ¹ / ₂	\$.01 .02 ¹ / ₂ .01 ¹ / ₂ .02 ¹ / ₂ .00 ¹ / ₂ .01 ³ / ₄ .00 ³ / ₄	.02 per Cu. Ft. .03 ¹ / ₂ per Cu. Ft. .02 per Cu. Ft. .03 ¹ / ₄ per Cu. Ft. .01 per Cu. Ft. .02 per Cu. Ft. .01 ¹ / ₄ per Cu. Ft.
Jan. 22	Feb. 12	McLure Twp.	¹ / ₂	2	Herbert A. Palmer, Charlton, Ont.	Jackpine Logs Spruce Pulpwood Poplar Pulpwood	1.50......10	7.00 .45 .25	\$1.50 1.40 .40
Jan. 27	Feb. 17	Kendry Twp.	³ / ₄	1	Thomas Moore, Smooth Rock Falls, Ont.	Spruce Logs Poplar Logs Spruce Pulpwood Balsam Pulpwood Fuelwood (Hard) Fuelwood (Soft)	.05 .05 .05 .05 .05 .05	7.00 3.00 .60 1.30 .25 .25	2.00 2.00 1.40 .70 .50 .25
Jan. 28	Feb. 17	Bowman Twp.	1	1	Briscoe Bros., Box 103, Matheson, Ont.	Poplar Logs Poplar Pulpwood	1.25 .10	3.00 .25	2.00 .40
Jan. 28	Feb. 17	Aldina Twp.	2	1	Messrs. H. G. Winslow and Sons, Kakabeka Falls, Ont.	Jackpine Logs Poplar Logs Jackpine Pulpwood Poplar	1.00 1.00 .10 .15	7.00 3.00 .40 .30	1.50 2.00 .40 .40
Feb. 1	Feb. 19	Eby Twp.	1	2	R. Sparks, Swastika, Ont.	Jackpine Logs Poplar Logs Spruce Pulpwood J. Pine Pit Props Poplar Pulpwood Birch Fuelwood	5.00 2.50 .45 1.00 .10 .10	7.50 2.50 .40 1.10 .25 .15	1.50 2.00 1.40 .40 .25 .50

TABLE NO. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1947	Date Sold 1947	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Feb. 1	Feb. 19	Wilberforce Twp.	1/4	3	Charles Lynch Douglas, Ont.	White Pine Logs	\$11.00	\$9.50	\$2.50	\$23.00 Per MBM
						Maple Logs	9.00	4.50	2.50	16.00 Per MBM
						Birch Logs	9.00	4.50	2.50	16.00 Per MBM
						Basswood Logs	12.00	4.50	2.50	19.00 Per MBM
						Poplar and other Softwood Logs	8.00	4.00	2.00	14.00 Per MBM
						Poplar Pulpwood	2.00	.60	.40	3.00 Per Cord
						Fuelwood (Hard)	.50	.50	.50	1.50 Per Cord
						Fuelwood (Soft)	.50	.25	.25	1.00 Per Cord
						Cedar Posts 8'	.05	.03	.02	.10 Each
						Feb. 14	Mar. 4	Cardiff Twp.	1 1/2	3	T. A. Wilson Lumber Co. Ltd., Cannington, Ont.	Pine Logs	4.25	7.50	2.50	14.25 Per MBM
Spruce & Balsam Logs	2.25	5.00	2.00	9.25 Per MBM						
Hemlock Logs	3.25	3.50	1.50	8.25 Per MBM						
Cedar Logs	2.25	4.50	1.50	8.25 Per MBM						
Tamarac Logs	2.25	4.50	1.50	8.25 Per MBM						
Maple Logs	3.25	4.50	2.50	10.25 Per MBM						
Birch Logs	4.25	4.50	2.50	11.25 Per MBM						
Oak Logs	4.25	4.50	2.50	11.25 Per MBM						
Basswood Logs	5.25	3.50	2.50	12.25 Per MBM						
Elm Logs	3.25	3.50	2.50	9.25 Per MBM						
Ash Logs	3.25	3.50	2.50	9.25 Per MBM						
Beech Logs	3.25	3.50	2.50	9.25 Per MBM						
Poplar Logs	2.25	3.00	2.00	7.25 Per MBM						

TABLE No. 6

Timber Areas Abandoned in the Year Ending March 31, 1947

Date Sold	Date of Abandonment	Locality	Area Square Miles	Licensee	Kind of Timber
Oct. 15/42	Mar. 1/46	Best Twp.	1¼	A. J. Murphy Lbr. Co., Latchford, Ont.	Red and White Pine Spruce and Jack- pine Logs
Sept. 4/29	May 1/46	Area lying West of W-2	2	Peter A. Legrow, 242 N. Algoma St., Port Arthur, Ont.	Jackpine Ties Spruce Pulpwood Jackpine Logs
July 17/41	May 7/46	Devitt Twp.	¼	E. Comeau, Val Cote, Ont.	Spruce Pulpwood Balsam Pulpwood
May 25/45	May 1/46	Rickaby and Lapierre Twps.	2	Sturgeon Tbr. Co., per P. A. Legrow, Box 506, Port Arthur, Ont.	Jackpine Pulpwood Spruce Pulpwood
Dec. 27/20	May 9/46	Nichol Twp.	36	Booth Lumber Ltd., Ottawa, Ont.	Red and White Pine Logs
Dec. 27/20	May 9/46	Charters Twp.	36	Booth Lumber Ltd., Ottawa, Ont.	Red and White Pine Logs
May 29/44	May 15/46	Brower Twp.	¼	T. B. Skidmore, Brower, Ont.	Spruce Pulpwood
June 12/41	May 15/46	Kendrey Twp.	1¼	J. M. Charpentier, Driftwood, Ont.	Spruce Pulpwood Balsam Pulpwood
June 8/43	May 29/46	Morrisette Twp.	4½	Haileybury Lumber Co., Ltd., Haileybury, Ont.	Spruce Logs Jackpine Logs White Pine Logs
Mar. 3/38	May 28/46	Tudor Twp.	½	H. C. Lloyd, Bannockburn, Ont.	All Species
Sept. 30/40	May 28/46	Tudor Twp.	1	H. C. Lloyd, Bannockburn, Ont.	All Species
Dec. 1/39	May 2/46	Aberdeen- Additional Twp.	¼	John O. McLeod, Leeburn, Ont.	All Species
Mar. 20/40	May 23/46	Skead Twp.	½	T. S. Woollings, Englehart, Ont.	Spruce Logs Balsam Pulpwood Spruce Pulpwood
Sept. 29/41	June 13/46	Area unsurveyed West of Redditt Twp. Designated as T.B. 48	½	A. Leydier, Kenora, Ont.	Spruce Logs Jackpine Logs Spruce Pulpwood Balsam Pulpwood
Aug. 21/44	May 30/46	Owens Twp.	¼	F. Gallant, Val Rita, Ont.	Spruce Pulpwood Balsam Pulpwood
Jan. 26/42	June 31/46	Somerville Twp.	½	S. Bryant, Norland, Ont.	All Species
Sept. 22/41	June 17/46	Williamson Twp.	½	J. E. Tremblay, Harty, Ont.	Spruce Pulpwood Balsam Pulpwood
July 29/43	June 17/46	Owens Twp.	½	W. Bergeron, Harty, Ont.	Spruce Pulpwood Balsam Pulpwood

TABLE NO. 6

Timber Areas Abandoned in the Year Ending March 31, 1947

Date Sold	Date of Abandonment	Locality	Area Square Miles	Licensee	Kind of Timber
Aug. 16/43	June 21/46	Nansen Twp.	$\frac{1}{4}$	W. Lamontagne, Moonbeam, Ont.	Spruce Pulpwood Balsam Pulpwood
Apr. 20/39	June 21/46	Tudor Twp.	$\frac{1}{4}$	G. W. Jones, Bancroft, Ont.	Spruce Pulpwood Balsam Pulpwood Poplar Pulpwood
Jan. 22/38	May 17/46	Barrie Twp.	$\frac{3}{4}$	J. A. Newton, Arden, Ont.	All Species
Nov. 21/38	July 15/46	Firstbrook Twp.	$\frac{3}{4}$	S. Norfolk, Haileybury, Ont.	Red and White Pine Logs Jackpine Logs Spruce Logs Cedar Logs
May 30/40	July 8/46	Crerar Twp.	1	Alfred Gignac, River Valley, Ont.	Spruce Pulpwood Poplar Pulpwood
Nov. 12/40	July 15/46	Bayly and Skead Twps.	$3\frac{1}{2}$	Robt. MacCallum, Earleton, Ont.	Spruce Logs Jackpine Logs Spruce Pulpwood
May 17/45	July 15/46	Leith and Ray Twps.	5	W. H. Durrell, New Liskeard, Ont.	All Species
Dec. 30/40	July 22/46	Machin Twp.	$\frac{1}{4}$	Arthur Gauthier, Fauquier, Ont.	Spruce Pulpwood Balsam Pulpwood
Jan. 23/41	Aug. 7/46	Aweres Twp.	$\frac{3}{4}$	William Boston, Sault Ste. Marie, Ont.	Hardwood
May 20/39	Aug. 13/46	Lake Twp.	$\frac{1}{4}$	W. J. McCoy, Eldorado, Ont.	Maple Logs Basswood Logs Elm Logs Spruce Logs Balsam Pulpwood
Dec. 30/41	Aug. 13/46	Mayo Twp.	$\frac{3}{4}$	Howard Hostler, Hermon, Ont.	Spruce Pulpwood Balsam Pulpwood Poplar Pulpwood Maple Logs Spruce Logs
Jan. 17/42	Aug. 13/46	Sabine Twp.	1	Judson A. Gunter, Princes Lake, Ont.	Birch Logs Pine Logs Hemlock Logs Maple Logs Beech Logs
Mar. 18/37	Aug. 13/46	Sabine Twp.	$1\frac{1}{2}$	Judson A. Gunter, Princes Lake, Ont.	All Species
May 22/40	Aug. 19/46	Richardson Twp.	$\frac{1}{4}$	Harvey Isberg, Sleeman, Ont.	Jackpine Logs Jackpine Pulpwood Poplar Pulpwood Spruce Pulpwood

TABLE No. 6

Timber Areas Abandoned in the Year Ending March 31, 1947

Date Sold	Date of Abandonment	Locality	Area Square Miles	Licensee	Kind of Timber
Jan. 13/25	Aug. 19/46	Gladman Twp.	10	L. B. Christie, Box 7, 24 Fraser St. North Bay, Ont.	Red and White Pine Logs Cedar Poles
Apr. 20/39	Sept. 13/46	Herschell Twp.	1	G. W. Jones, Bancroft, Ont.	Spruce Pulpwood Balsam Pulpwood
Apr. 20/39	Sept. 13/46	Mayo and Ashby Twps.	1	G. W. Jones, Bancroft, Ont.	Spruce Pulpwood Balsam Pulpwood Poplar Pulpwood
Apr. 20/39	Sept. 13/46	Wollaston Twp.	$\frac{3}{4}$	G. W. Jones, Bancroft, Ont.	Spruce Pulpwood Balsam Pulpwood Poplar Pulpwood
Nov. 29/43	Sept. 13/46	Hartman Twp.	$\frac{1}{4}$	G. L. Pidgeon, Wabigoon, Ont.	Jackpine Logs Spruce Logs Spruce Pulpwood Jackpine Pulpwood
Nov. 12/40	Sept. 13/46	Montgomery and Patton Twps.	$\frac{1}{2}$	Wm. Laforge, Iron Bridge, Ont.	Hardwood Logs Hemlock Logs
Nov. 5/28	Sept. 13/46	Bond Twp.	$\frac{1}{2}$	J. W. Quirion, Connaught Stn., Ont.	Spruce Pulpwood Balsam Pulpwood
Sept. 30/37	Oct. 1/46	Zealand Twp.	$\frac{1}{2}$	George H. Leach, Dryden, Ont.	Jackpine Pulpwood Spruce Pulpwood
Oct. 27/43	Oct. 8/46	Haycock Twp.	$\frac{1}{2}$	John Shamlock, Box 944, Kenora, Ont.	Spruce Pulpwood
Nov. 27/44	Oct. 10/46	Janes Twp.	1 $\frac{1}{2}$	Mattawa Wood Products, Ltd., North Bay, Ont.	Jackpine Pulpwood
Oct. 30/39	Oct. 11/46	Clement and Scholes Twp.	17	Geo. Gordon & Co., Ltd., Cache Bay, Ont.	Red and White Pine Logs
Nov. 12/37	Oct. 8/46	Galbraith Twp.	$\frac{1}{4}$	Murray Bean, Bruce Stn., Ont.	Spruce Pulpwood Balsam Pulpwood
July 25/41	Oct. 8/46	Radcliffe Twp.	$\frac{1}{4}$	F. A. Smaglinski, Wilno, Ont.	Poplar Pulpwood
Aug. 17/38	Nov. 25/46	Doyle Twp.	5	John W. Fogg, Ltd., Timmins, Ont.	Red and White Pine Logs Jackpine Logs Spruce Logs
Dec. 20/40	Dec. 2/46	Melick Twp.	$\frac{1}{4}$	John Wyder, Box 352, Kenora, Ont.	Jackpine Logs Spruce Pulpwood Balsam Pulpwood
Nov. 3/42	Nov. 28/46	Between Twps. 83 and 84	2	J. Cebrario, Schrieber, Ont.	Spruce Logs Jackpine Logs

TABLE No. 6

Timber Areas Abandoned in the Year Ending March 31, 1947

Date Sold	Date of Abandonment	Locality	Area Square Miles	Licensee	Kind of Timber
Dec. 4/39	Dec. 27/46	Victoria Twp.	1	J. Whalen, Walford, Ont.	Spruce Pulpwood Balsam Pulpwood
Oct. 11/41	Mar. 31/46	Denbigh Twp.	½	Frank Edwards, Denbigh, Ont.	All Species
Nov. 23/43	Mar. 31/47	Head Twp.	2¼	Emil & Albert Zadow, 670 Pembroke St.W. Pembroke, Ont.	Red and White Pine Logs Poplar Logs
Nov. 23/36	Mar. 3/47	Parcels 1, 2, 3 & 4 on South Arm of Kenogamis Lake	9	Lars Lahti, Geraldton, Ont.	Jackpine Logs Spruce Logs

TABLE No. 7

Timber Areas Transferred during the year ending March 31, 1947

Date Sold	Date Transferred	Locality	Area Square Miles	Transferee	Kind of Timber
Mar. 1/27	Apr. 10/46	Beniah, Menapie and Thorning Twps.	143½	A. E. Wicks, Ltd., Cochrane, Ont.	Spruce Logs Balsam Logs Spruce, Balsam and other Pulpwoods
Dec. 18/44	June 4/46	Twp. 28	4	Armour & Graham, Ltd., 24 King St. W., Toronto, Ont.	Jackpine Logs Spruce Logs Jackpine Pitprops Spruce Pitprops
Jan. 3/45	June 17/46	Hanlan Twp.	1½	Leonides Boisvert, La Sarre, Que.	Poplar Logs Spruce Pulpwood Balsam Pulpwood
Apr. 26/37	June 7/46	Adrian Twp.	6¼	Nicholas Enders, Kakabeka Falls, Ont.	White Pine Logs Spruce and Balsam Pulpwood Birch, Spruce and Balsam Logs Birch Fuelwood
May 16/45	July 11/46	Rupert and Esnagami Twps.	15	Donald A. Clark, Port Arthur, Ont.	Jackpine
Jan. 12/07	June 19/46	Montreal River Pulp Conc.	1152	E. B. Eddy Co., Hull, Que.	Spruce, Balsam and other Pulpwood
May 30/40	Sept. 5/46	Area in vicinity of Nulla Lake	1	Harry Thomas, Port Arthur, Ont.	Spruce Pulpwood Balsam Pulpwood Pine Timber Spruce Logs Balsam Logs

TABLE NO. 7

Timber Areas Transferred during the year ending March 31, 1947

Date Sold	Date Transferred	Locality	Area Square Miles	Transferee	Kind of Timber
Jan. 20/43	Sept. 5/46	Black Twp.	6	E. V. Woollings, Englehart, Ont.	Jackpine Logs Spruce Logs Spruce Pulpwood Balsam Pulpwood Poplar Pulpwood
Nov. 26/45	Jan. 13/47	Cochrane Twp.	1¾	K. W. Biglow, Devon, Ont.	Jackpine Logs Spruce Pitprops Jackpine Pitprops
July 18/46	Nov. 5/46	Eby Twp.	½	Chas. Marshall, Swastika, Ont.	Spruce Pulpwood Balsam Pulpwood
Dec. 18/87	Oct. 15/46	Livingstone Twp.	4¼	National Lumber Co., Ltd., 80 Richmond St. W. Toronto, Ont.	All Species
Feb. 28/44	Jan. 13/47	North Indian Res. No. 23	6	Eric Pearson and Paul Engblom, Fort Frances, Ont.	Jackpine Logs Spruce Logs Poplar Logs Jackpine Pulpwood
Jan. 11/37	Nov. 28/46	MacLennan Twp.	3¼	Del Doaust and John Morbin, Skead, Ont.	Red and White Pine Logs Jackpine Logs Spruce Logs Poplar Pulpwood Spruce Pulpwood
Nov. 1/46	Dec. 21/46	Little Twp.	1¾	Feldman Timber Co. Ltd., Schumacher, Ont.	Spruce Logs Poplar Logs Spruce Pulpwood Balsam Pulpwood
Dec. 9/35	Jan. 27/47	Pense Twp.	½	Ben Crick, Hilliardton, Ont.	White Pine Logs Spruce Logs Spruce Pulpwood
Oct. 4/39	Jan. 27/47	Pense Twp.	1¾	Ben Crick, Hilliardton, Ont.	Red and White Pine Logs Spruce Logs Birch Logs
Sept. 19/45	Nov. 19/46	Phelps Twp.	9	Pannill Lumber Co. Ltd., 42 Edward St., Kitchener, Ont.	Hardwood Logs Hemlock Logs Spruce Logs
1895-96	June 24/46	Pentland Twp.	24¼	Staniforth Lumber Co., 437 James St., Montreal, Que.	All Species
1878-79	Jan. 13/47	Lavant Twp.	15¾	Mary C. Herron, R.R. 2, Lanark, Ont.	All Species
Prior to 1879	Dec. 16/46	Anstruther Twp.	5¼	Ernest Caldwell, Hockley, Ont.	All Species

TABLE NO. 7

Timber Areas Transferred during the year ending March 31, 1947

Date Sold	Date Transferred	Locality	Area Square Miles	Transferee	Kind of Timber
1878-79	Sept. 26/46	Admaston Twp.	2¾	M. E. McNulty, Mt. St. Patrick, Ont.	All Species
Prior to 1879	Jan. 13/47	Berth 175	18	I. E. Provencher, Blind River, Ont.	All Species
Prior to 1879	Nov. 19/46	Bethune Twp.	8¾	Frank H. Harris Lumber Co. Ltd., Excelsior Life Bldg., Toronto, Ont.	All Species
Prior to 1879	May 19/46	South Canonto Twp.	1½	B. W. and O. E. Rothwell, Lanark, Ont.	All Species
Prior to 1879	May 19/46	South Canonto Twp.	2	B. W. and O. E. Rothwell, Lanark, Ont.	All Species
Prior to 1879	June 3/46	Pts. Burnaby, Hebert and Eldridge Twps.	50	Gillies Bros. and Co. Ltd., Braeside, Ont.	All Species
Prior to 1879	June 3/46	Pts. Flett, Angus and Parkman Twps.	36	Gillies Bros. and Co. Ltd., Braeside, Ont.	All Species
Prior to 1879	June 3/46	Pts. LaSalle, Angus, McAusland, and Parkman Twps.	59	Gillies, Bros. and Co. Ltd., Braeside, Ont.	All Species
Prior to 1879	June 3/46	Pts. Wyse, Parkman and McAusland Twps.	36	Gillies Bros. and Co. Ltd., Braeside, Ont.	All Species
Prior to 1879	June 3/46	Pt. Parkman Twp.	17½	Gillies Bros. and Co. Ltd., Braeside, Ont.	All Species
Prior to 1879	May 19/46	South Canonto Twp.	½	B. W. and O.E. Rothwell, Lanark, Ont.	All Species
1890-91	May 19/46	South Canonto Twp.	4¼	B. W. and O. E. Rothwell, Lanark, Ont.	All Species
July 30/46	Jan. 9/47	Sheraton Twp.	2¼	Bouchard Timber Co., 125 Wilson Ave., Timmins, Ont.	Jackpine Logs Poplar Logs Jackpine Pulpwood Poplar Pulpwood Balsam Pulpwood Spruce Pulpwood Jackpine Fuelwood and Pitprops
Aug. 15/46	Jan. 9/47	Sheraton Twp.	1½	E. Mainville, 66 Main St., Timmins, Ont.	Jackpine Logs Jackpine Fuelwood Jackpine Pitprops

TABLE No. 7

Timber Areas Transferred during the year ending March 31, 1947

Date Sold	Date Transferred	Locality	Area Square Miles	Transferee	Kind of Timber
Prior to 1879	June 21/46	Berth 107	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Bigelow Twp.	3¾	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Acheson Twp.	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Vernon Twp.	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Hyman Twp.	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Totten Twp.	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Porter Twp.	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	Feb. 17/47	Stanhope Twp.	5	Hodgson Jones Lumber Co. Ltd., 320 Bay St., Toronto, Ont.	All Species
Prior to 1879	Feb. 17/47	Sherbourne Twp.	10¼	Hodgson Jones Lumber Co. Ltd., 320 Bay St., Toronto, Ont.	All Species
Prior to 1879	Feb. 17/47	Stanhope Twp.	11	Hodgson Jones Lumber Co. Ltd., 320 Bay St., Toronto, Ont.	All Species
Prior to 1879	July 17/47	Pts. Eddy, Jocko, Clarkson, Wyse and Poitras Twps.	50	Guelph Cask, Veneer & Plywood Co. Ltd., Scotstown, Ont.	All Species
Feb. 5/45	Mar. 20/47	McFadden Twp.	12	Chesterville Mines Ltd., 330 Bay St., Toronto, Ont.	White Pine Logs Red Pine Logs Jackpine Logs Spruce Logs Spruce Pulpwood Balsam Pulpwood

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